CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, October 26, 1905

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close	Work.	Place.	On file.	See issue.
Oct.				
*26	Dam, etc.	Belle Fourche, S. Dak.	P. & S.	9- 7
20	Building	West Point, N. Y.	P. & S.	10-19
Nov.				
1	Generators	Arizona	P. & S.	10-13
*1	Cement	Denver, Colo.	S.	10-12
2	Grade reduction	Brooklyn, N. Y.	P. & S.	10-26
2	Water wheels	Arizona	P. & S.	10-13
2	Quay wall	Key West, Fla.	S.	10-19
2	Quay wall	Cuba	S.	10-19
*6	Sewer system	N. Yakima, Wash.	P. & S.	10-26
*7	Steel bridge	Portage, Wis.	P. & S.	10-26
8	Heating	Philadelphia, Pa.	S.	10-26
*8	Irrigation canals	Denver, Colo.	P. & S.	10-12
11	Grading	Portsmouth, N. H.	S.	10-26
25	Drainage canals	N. Orleans, La.	S.	10-26
Dec.				
*5	Dam	Billings, Mont.	P. & S.	9-14
*	Steel rolled beams	New York	S.	10-12
Jan.				
*2	Water system	Manila	P. & S.	9-21
*12	Sewer system	Manila	P. & S.	9-21

*Work advertised in Engineering News.

NOTE.—We are desirous of securing specifications and bidding sheets (and plans when not too bulky) of pending work for file in our New York office for the benefit of contractors or others who may be interested in the work. If more sets than one are sent us we shall be pleased to distribute these to contractors who ask for them. When the work is advertised in Engineering News a note that the plans are filed with us will be added to the advertisement without cost.

LIST OF CONTRACTS PENDING.

Bids close. Work. Place. See issue.

LIGHT, HEAT AND POWER PLANTS.

Oct. 27. Power house, etc., Danville, Pa. ..... Oct. 19
Advertised, Eng. News, Oct. 19 and 26.
Oct. 30. Power plant equipment, Breese, Ill. ..... Oct. 19
Nov. 1. Generators, etc., Los Angeles, Cal. ..... Sept. 14
Advertised, Eng. News, Sept. 14 to Nov. 2.
Nov. 1. Generators, Arizona ..... Oct. 12
Nov. 1. Lighting system, Central Islip, N. Y. ..Oct. 26
Advertised, Eng. News, Oct. 26.
Nov. 2. Water wheels, Arizona ..... Oct. 12
Nov. 2. Water wheels, etc., Los Angeles, Cal. ... Sept. 21
Advertised, Eng. News, Sept. 21 to Oct. 26.
Nov. 7. Central heating plant, San Jose, Cal. ..... Oct. 19
Dec. 2. Water power, Porto Rico ..... Aug. 17
Advertised, Eng. News, Aug. 17to Sept. 14.

BRIDGES.

Oct. 28. Bridge, Indianapolis, Ind. ..... Oct. 19
Oct. 28. Bridge, Akron, O. ..... Oct. 12
Oct. 28. Bridge, San Francisco, Cal. ..... Oct. 26
Oct. 30. Bridge, Lancaster, Pa. ..... Oct. 26
Oct. 30. Bridge, Camden, N. J. ..... Sept. 21
Advertised, Eng. News, Sept. 21 and 28.
Oct. 30. Bridge, Aberdeen, Wash. ..... Oct. 19
Nov. 1. Bridge, Greenville, S. C. ..... Oct. 26
Nov. 2. Bridges, Brooklyn, N. Y. ..... Oct. 26
Nov. 3. Bridges, Port Huron, Mich. ..... Oct. 26
Nov. 3. Bridge, Ukiah, Cal. ..... Oct. 26
Nov. 4. Bridge, Hoosick Falls, N. Y. ..... Oct. 26
Advertised, Eng. News, Oct. 26.
Nov. 6. Bridges, Tipton, Ind. ..... Oct. 26
Nov. 4. Bridge abutments, Barberton, O. ..... Oct. 19
Nov. 6. Bridge, Jamestown, N. Dak. ..... Oct. 19
Nov. 6. Steel bridge, Huntsville, Ala. ..... Oct. 12
Nov. 6. Bridge, Memphis, Tenn. ..... Oct. 12
Nov. 6. Bridge, Monte Vista, Colo. ..... Oct. 26
Nov. 6. Bridge, Rosedale, Miss. ..... Oct. 26
Nov. 6. Bridge, San Bernardino, Cal. ..... Oct. 26
Nov. 7. Bridge, Fargo, N. Dak. ..... Oct. 26
Nov. 7. Bridge, Portage, Wis. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 7. Bridge, iron, Palmyra, Mo. ..... Oct. 19
Nov. 8. Bridge, South Bend, Ind. ..... Oct. 19
Nov. 8. Bridge, steel, Vale, Ore. ..... Oct. 19
Nov. 8. Steel arches, Auburn, Ind. ..... Oct. 19
Nov. 8. Bridges, Denver, Colo. ..... Oct. 12
Advertised, Eng. News, Oct. 12 to Nov. 9.
Nov. 8. Bridge, steel, Bellingham, Ala. ..... Oct. 26
Nov. 8. Bridges and culverts, So. Bend, Ind. ... Oct. 26
Nov. 9. Bridge, steel, Jefferson City, Mo. ..... Oct. 26
Nov. 9. Bridges, Ventura, Cal. ..... Oct. 26
Nov. 11. Bridge, Lancaster, O. ..... Oct. 26
Nov. 20. Bridge, Memphis, Tenn. ..... Oct. 26
Jan. 1. Steel bridge, Pensacola, Fla. ..... Sept. 28

BUILDINGS.

Oct. 26. School, Jersey City, N. J. ..... Oct. 12
Oct. 26. Roof and skylights, Washington, D. C. ... Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 26.
Oct. 27. Buildings, Green Bay, Wis. ..... Sept. 28
Oct. 27. Buildings, Ft. Leavenworth, Kan. ..... Oct. 12
Oct. 30. Hospital, Newark, N. J. ..... Oct. 12
Oct. 30. Heating system, Ft. Monroe, Va. ..... Oct. 19
Oct. 31. School, Brady, Tex. ..... Oct. 19
Nov. 1. School, Saugus, Mass. ..... Oct. 26
Nov. 1. City Hall, Wausau, Wis. ..... Oct. 26
Nov. 2. Bakery (Mfg. Plts.), Ft. Robinson, Neb. . Oct. 19
Nov. 3. Court-house, Deadwood, S. Dak. ..... Oct. 26
Nov. 6. Light fixtures, Ft. Des Moines, Ia. ..... Oct. 19
Nov. 7. Steam heating, Guthrie, Okla. ..... Oct. 19
Nov. 8. Electric light fixtures, Washington, D. C. Sept. 28
Advertised, Eng. News, Sept. 28 to Nov. 9.
Nov. 8. Heating, Philadelphia, Pa. ..... Oct. 26
Nov. 9. Court-house, Marion, Kan. ..... Oct. 12
Nov. 14. Post-office, Colorado Springs, Colo. ..... Sept. 21
Nov. 14. Drill hall, Ft. Des Moines, Ia. ..... Oct. 26
Nov. 15. Blacksmith shop, Tompkinsville, N. Y. . Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 15. Plumbing system, Burlington, Ia. ..... Oct. 19
Nov. 20. School, Danbury, Ia. ..... Oct. 26
Nov. 22. Heating, Evanston, Wyo. ..... Oct. 26
Nov. 27. Quarantine station, Mullet Key, Fla. ... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 27. Hospital, etc., Pensacola, Fla. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 28. Cells, Kansas City, Mo. ..... Oct. 26
Nov. 29. Building, West Point, N. Y. ..... Oct. 19
Advertised, Eng. News, Oct. 19, 26 and Nov. 16 and 23.
Dec. 12. Capitol building, Bismarck, N. Dak. ..... Oct. 5

WATER SUPPLY AND IRRIGATION.

Oct. 26. Dam, canals, etc., Belle Fourche, S. Dak. Sept. 7
Advertised, Eng. News, Sept. 7 to Nov. 2.
Oct. 28. Irrigation canals, Hood River, Ore. ..... Oct. 5
Oct. 30. Water-works, Bassett, Neb. ..... Oct. 19
Advertised, Eng. News, Oct. 19 and 26.
Oct. 30. Sinking well, Fort Dodge, Ia. ..... Oct. 19
Oct. 31. Test wells, Pensacola, Fla. ..... Oct. 12
Nov. 6. Conduit, Sec. 1, Toledo, O. ..... Oct. 12
Advertised, Eng. News, Oct. 12 and 19.
Nov. 6. Conduit, Sec. 2, Toledo, O. ..... Oct. 12
Advertised, Eng. News, Oct. 12 and 19.
Nov. 6. Water mains, Valley City, N. Dak. ..... Oct. 19
Nov. 6. Steel caisson, Winnipeg, Man. ..... Oct. 26
Nov. 7. Boilers and pumps, St. Louis, Mo. ..... Oct. 19
Nov. 7. Tank and trestle, Fort Stevens, Ore. ... Oct. 19
Nov. 8. Boilers, New York, N. Y. ..... Oct. 19
Nov. 8. Irrigation canal, Denver, Colo. ..... Oct. 12
Advertised, Eng. News, Oct. 12 to Nov. 9.
Nov. 10. Steel pipe, etc., Cincinnati, O. ..... Oct. 19
Nov. 11. Water-works, East Moline, Ill. ..... Oct. 19
Advertised, Eng. News, Oct. 19 to Nov. 9.
Dec. 15. Irrigation canal, etc., Billings, Mont. ... Oct. 19
Advertised, Eng. News, Oct. 19 to Dec. 14.
Nov. 15. Water-works, etc., Independence, Kan. ... Oct. 26
Nov. 16. Water-works, Lebanon, Pa. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Dec. 1. Water meters, Chicago, Ill. ..... Oct. 26
Dec. 5. Yellowstone dam, Billings, Mont. ..... Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 26.
Jan. 2. Water-works, Philippines ..... Sept. 21
Advertised, Eng. News.

SEWERAGE.

Oct. 26. Main sewer, etc., Portsmouth, O. ..... Oct. 5
Oct. 27. Sewer mains, North Platte, Neb. ..... Oct. 12
Oct. 27. Pipe sewer, Des Moines, Ia. ..... Oct. 19
Oct. 27. Sewer, Boston, Mass. ..... Oct. 26
Oct. 30. Pipe sewer, Goshen, Ind. ..... Oct. 26
Nov. 1. Tile sewers, Buffalo, N. Y. ..... Oct. 26
Nov. 2. Purification works, Columbus, O. ..... Oct. 5
Advertised Eng. News, Oct. 5 to Nov. 2.
Nov. 4. Pipe sewer, Grosse Pointe Farms, Mich. Oct. 12
Nov. 6. Concrete sewer, Plainfield, N. J. ..... Oct. 12
Advertised, Eng. News, Oct. 12.
Nov. 6. Sewers, Napoleon, O. ..... Oct. 12
Nov. 6. Sewers, Glendale, O. ..... Oct. 12
Nov. 6. Sewer system, North Yakima, Wash. ... Oct. 19
Advertised, Eng. News, Oct. 26.
Nov. 6. Pipe sewer, Glendale, O. ..... Oct. 26
Nov. 7. Sewers, Chattanooga, Tenn. ..... Oct. 12
Advertised, Eng. News, Oct. 12 and 19.
Nov. 9. Pipe sewers, Boise City, Idaho ..... Oct. 26
Advertised, Eng. News, Oct. 26 and No. 2.
Nov. 10. Sewers, Aberdeen, S. Dak. ..... Oct. 26
Nov. 30. Sewer system, Baton Rouge, La. ..... Oct. 26
Dec. 11. Sewerage, Sheldon, Ia. ..... Oct. 12
Jan. 12. Sewer system, Philippines ..... Sept. 21
Advertised, Eng. News.

STREETS AND ROADS.

Oct. 26. Sidewalks, Ashland, Wis. ..... Oct. 19
Oct. 26. Mudshell, Galveston, Tex. ..... Oct. 19
Oct. 28. Paving, Spokane, Wash. ..... Oct. 19
Oct. 31. Cement walks, Franklin, Ind. ..... Oct. 26
Oct. 31. Paving, vitrified brick, Des Moines, Ia. . Oct. 26
Oct. 31. Brick paving, etc., Centralia, Ill. ..... Oct. 26
Nov. 1. Paving, asphalt, Cincinnati, O. ..... Oct. 19
Nov. 1. Paving, Steelton, Pa. ..... Sept. 14
Advertised, Eng. News, Sept. 14 to Oct. 5.
Nov. 3. Cement walks, Pipestone, Minn. ..... Oct. 26
Nov. 4. Macadamizing, Norwood, O. ..... Oct. 26
Nov. 6. Paving, Grensburg, Pa. ..... Oct. 26
Nov. 6. Gravel roads, Salem, Ind. ..... Oct. 26
Nov. 6. Paving, Perth Amboy, N. J. ..... Oct. 26
Nov. 6. Paving, Cincinnati, O. ..... Oct. 19
Nov. 6. Roads, Crownpoint, Ind. ..... Oct. 19
Nov. 6. Paving vitrified brk., Moundsville, W. Va. Oct. 19
Nov. 7. Gravel roads, Bloomfield, Ind. ..... Oct. 26
Nov. 7. Paving, Bisbee, Ariz. ..... Oct. 26
Nov. 10. Road, Cincinnati, O. ..... Oct. 19
Nov. 25. Walks and curbs, New Orleans, La. ..... Oct. 26
Nov. 30. Paving, Baton Rouge, La. ..... Oct. 26
No date. Grading, Baltimore, Md. ..... Oct. 12
Advertised, Eng. News, Oct. 12.

MISCELLANEOUS CONTRACTS.

Oct. 26. Park work, New York, N. Y. ..... Oct. 19
Oct. 27. Ferry boat parts, New York, N. Y. ... Oct. 19
Oct. 27. Rip-rap, sea wall, New York, N. Y. .... Sept. 28
Advertised, Eng. News, Sept. 28 to Oct. 26.
Oct. 28. Earth removal, Portsmouth, N. H. ..... Oct. 5
Oct. 28. Dredging, etc., Philadelphia, Pa. ..... Oct. 19
Oct. 30. Ferry house, New York, N. Y. ..... Oct. 19
Oct. 30. Dredging, Washington, D. C. ..... Oct. 5
Advertised Eng. News, Oct. 5 to Nov. 2.
Nov. 1. Jetty, Washington, D. C. ..... Oct. 5
Advertised, Eng. News, Oct. 5 to Nov. 2.
Nov. 1. Lock, dam, etc., Chicago, Ill. ..... Sept. 7
Advertised, Eng. News, Sept. 7.
Nov. 1. Portland cement, Denver, Colo. ..... Oct. 12
Advertised, Eng. News, Oct. 12 to Nov. 2.
Nov. 1. Retaining wall, Cincinnati, O. ..... Oct. 12
Nov. 1. Dredging, Oyster Bay, N. Y. ..... Oct. 26
Advertised, Eng. News, Oct. 19.
Nov. 2. Grade reduction, Bklyn, N. Y. (Elec Rys). Oct. 26
Nov. 2. Wreck removal, Norfolk, Va. ..... Oct. 12
Advertised, Eng. News, Oct. 12 and 19.
Nov. 3. Canal, bridges, etc., Port Huron, Mich. Oct. 12
Advertised, Eng. News, Oct. 12 to Nov. 2.
Nov. 3. Ammunition hoists, Washington, D. C. ... Oct. 5
Advertised, Eng. News, Oct. 5 to Nov. 2.
Nov. 3. Breakwater, Port Burwell, Ont. ..... Oct. 19
Nov. 3. Piles, sand, New York, N. Y. ..... Oct. 26
Nov. 3. Chimney, Buffalo, N. Y. ..... Oct. 26
Nov. 4. Tile drain, Raymond, Ill. ..... Oct. 12
Nov. 6. Garbage disposal, New York, N. Y. ..... Sept. 7
Advertised, Eng. News, Sept. 7 to Nov. 9.
Nov. 6. Dam, Phoenix, Ariz. ..... Oct. 19
Nov. 6. Fire hose, Sioux Falls, S. Dak. ..... Oct. 26
Nov. 6. Ditch, Onawa, Ia. ..... Oct. 26
Nov. 7. Lime, roofing, etc., Cuba ..... Oct. 12
Nov. 7. Buoys, Tompkinsville, N. Y. ..... Oct. 26
Nov. 7. Tile drain, Clinton, Ill. ..... Oct. 26
Nov. 7. Pipe, conduit, motor, etc., Wash., D. C. . Oct 26
Nov. 7. Boiler, Fort Brown, Tex. ..... Oct. 26
Nov. 9. Wharf, etc., Havana, Cuba ..... July 27
Nov. 11. Grading, Portsmouth, N. H. ..... Oct. 26
Nov. 11. Machinery, etc., Washington, D. C. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 13. Fire alarm system, Sycamore, Ill. ..... Oct. 26
Advertised, Eng. News, Oct. 26 and Nov. 2.
Nov. 15. Irrigation canals, Glendive, Mont. ..... Sept. 28
Advertised, Eng. News, Sept. 28 to Nov. 9.
Nov. 16. Shovels, axes, etc., Washington, D. C. . Oct. 26
Nov. 18. Underground cable, Philadelphia, Pa. ... Oct. 26
Nov. 20. Concrete wall, Chattanooga, Tenn. ..... Oct. 12
Advertised, Eng. News, Oct. 12 to Nov. 16.
Nov. 25. Drainage canals, etc., New Orleans, La. . Oct. 26
Nov. 28. Drills, Pipe, etc., Washington, D. C. ..... Oct. 26
Nov. 28. Fire alarm, Mare Island, Cal. ..... Oct. 19
Dec. 2. Concrete quay wall, Cuba ..... Oct. 19
Dec. 2. Concrete wall, Key West, Fla. ..... Oct. 19
Dec. 15. Railways, Philippines ..... Sept. 21
Jan. 1. Statue, Indianapolis, Ind. ..... July 20
Advertised, Eng. News, July 20.
Jan. 2. Railroad, Chile ..... Aug. 24
Jan. 9. Wharf work, New Zealand ..... Oct. 19
No date. Steel rolled beams, New York, N. Y. ... Oct. 12
Advertised, Eng. News, Oct. 12 and 19.

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATLANTIC & WESTERN.—This railway will be extended from Broadway, N. C., to Buckhorn, seven miles. W. J. Edwards, Sanford, N. C., is Pres. and Gen. Mgr. P. D. Watkins is Ch. Engr.

AUGUSTA & FLORIDA.—We are advised that this railway will be 74 miles long, extending from Augusta, Ga., via Midville, Rosier, Vidette, Gough and St. Clair, to Keysville, Ga. Road is completed from Swainsboro to Keysville. W. M. Blount, Keysville, is Gen. Mgr. Allen W. Jones, of Midville, is Pres.

ATLANTIC COAST LINE.—James H. Chadbourn, of Wilmington, N. C., has sold the Conway Coast & Western Railway to the Atlantic Coast Line. The purchaser agrees to complete the extension 15 miles from Conway to Aynor, N. C. The part of the road now in operation extends 15 miles, from Conway, S. C., to Myrtle Beach.

ATCHISON, TOPEKA & SANTA FE.—An extension may be built from Davis to Sulphur Springs, Tex.

ALABAMA & WESTERN (Ill. Central).—Company has applied for a charter in Alabama to build a railway from northwestern part of Franklin County to Birmingham. The incorporators are J. C. Welling, of Chicago; Stuyvesant Fish, of New York, and Frank S. White, of Birmingham. The officers are Stuyvesant Fish, Pres.; J. C. Welling, 1st vice-Pres.; J. T. Harahan, 2nd vice-Pres.; W. C. Bruen, Sec., and J. F. Titus, Treas. Capital stock is $25,000.

BAY SHORE & PACIFIC.—We are advised that surveys are now completed and that contracts will be let within 60 days for construction of the Bay Shore & Pacific Ry. in San Diego, Cal. It will be 30 miles long. Motive power will be steam and electricity. H. T. Richards is Pres. and Ch. Engr., at San Diego.

BEAUFORT & WESTERN.—Capital will be increased to $250,000. A railway will be built from Morehead City to Beaufort, N. C. Fred. L. Merritt is Pres.; R. P. Foster is vice-Pres., and M. Manley is Sec. and Treas. Charter was granted this company by the last legislature.

BRUNSWICK & BIRMINGHAM—WRIGHT, WILLIAMS & WADLEY have grading contract between Lagrange, Ga., and Birmingham, Ala. The ALABAMA CONSTRUCTION CO., of Anniston, Ala., has been sub-let a contract to grade several miles of line.

BOONE COUNTY R.R.—Company has been chartered to build a line from Madison, W. Va., to Beckley, W. Va., about 40 miles. The incorporators are George E. Price, Harrison B. Smith, J. Edmund Price, H. L. Flournoy and Charles G. Davis, all of Charleston, W. Va.

CLEVELAND, CINCINNATI, CHICAGO & ST. LOUIS.—We are informed by W. M. Duane, Supt. Construction, Cincinnati, O., that contracts for the work of grade reduction in the St. Louis Division between Carbon, Ind., and Coal Bluff, Ind., were recently awarded as follows: To THOMAS McNALLY CO., Pittsburg, Pa.; the OHIO CONTRACTING CO., Cleveland, O.; and O. D. GUILFOIL, Terre Haute, Ind. Work includes 500,000 cu. yds. common excavation.

CANADIAN PACIFIC.—Extensive improvements in the revision of grades and curves are being made on the Crow's Nest Pass line in Alberta, owing to the development of traffic.

Board of Railway Commissioners have approved plans of the C. P. Ry. for a line from Stratford, through North Easthope, to boundary of Waterloo County. Also, plans for a line from Linwood to Listowell.

COLORADO, WYOMING & IDAHO.—We are informed that surveys are being made and right-of-way obtained for this railway. Grading contract will be let at once. Contracts for ties have been let to E. KULL, Encampment, Wyo.; B. T. RYAN, Saratoga, Wyo., and D. M. FORMAN, of Saratoga. The line is to be 44 miles in length from Saratoga to Encampment. Fennimore C. Fullerton, Cheyenne, Wyo., is Pres.; Frank Cramer is Ch. Engr., at Encampment. J. B. Hassett, Sec. Bd. Trade, Saratoga, Wyo., is interested.

CANADIAN NORTHERN.—A line is being graded from Winnipeg to connect with the old Hudson's Bay Ry., running up the east side of Lake Manitoba. This old line has been abandoned for several years but is now to be made a part of the Canadian Northern system. The main line will reach Edmonton by December, and will probably be extended beyond that point before work is stopped for the winter. The new passenger station, terminals and hotel at Winnipeg will cost about $2,500,000. M. H. McLeod, of Winnipeg, is Ch. Engr.

CHICAGO, ROCK ISLAND & PACIFIC.—It is expected that the branch from Coalgate to Lehigh, Ind. T., 6½ miles, will be completed by the end of the year. The line from Traskwood to Crossett, Ark., 107½ miles, with a 35½-mile branch from Summerville to Eldorado, Ark., is being pushed vigorously, with a view to having it in operation in January. Work was commenced last March. It will cost about $3,000,000.

CHICAGO & EASTERN ILLINOIS.—The most important of the extensive improvements authorized by the board of directors are as follows: (1) Large additional terminal yard at Dolton (Chicago city limits); (2) third main track between Dolton and Momence and on other congested portions of the main line; (3) additional passing tracks on all lines; (4) the installation of block signal system on main lines; (5) a cut-off around Danville, Ill., to enable heavy coal trains to avoid the congested yards at that place. The estimated cost is over $2,000,00. Some of the improved facilities will be available for handling the heavy coal traffic during the coming winter. J. F. Hinckley is Ch. Engr., St. Louis, Mo.; W. S. Dawley is Engr. of Maintenance, Chicago, Ill.

DOMINION & GULF.—J. R. Koontz, Pres., Hutchinson, Kan., is reported to have secured funds to begin construction of this line. Company was incorporated to build a railway from Winnipeg, Man., to Galveston, Tex. Work will begin probably next spring.

DAWSON SPRINGS & MADISONVILLE.—Surveys are being made for this line. It will be 20 miles long, extending from Dawson Springs, Ky., via Richland and Charleston, to Madisonville. The incorporators are W. G. Harris, Ames Haydon, W. J. Powell and Luther Haydon, all of Hopkinsville, Ky.

GILA VALLEY, GLOBE & NORTHERN.—Contract has been let to ROBERT SCHERER & CO., of Los Angeles, Cal., for the reconstruction of about 32 miles of line, from Bowie to Globe, Ariz. A. M. Beal, Globe, Ariz., is Supt.

GRANVILLE & OGLESBY.—The right-of-way is being purchased for this new Illinois road, which will develop coal properties. N. H. Colby, of Granville, Ill., is interested. The incorporators include S. T. Crapo, of Detroit, Mich., and A. Uhland and H. E. Hallenbeck, of Chicago.

HOUSTON, SABINE & RED RIVER.—Company has been organized and charter will be filed soon, to build a railroad from Houston, Tex., northeast via Jasper and Sabine, Tex., Burr Ferry, and Alexandria, La., to Natchez, La. Capital stock is $500,000. Main office is at Houston. Surveys have been completed from Houston to Jasper, about 125 miles. Contracts will be let soon. H. W. Cortes is Pres.; Ed. Kennedy is Vice-Pres. and Gen. Mgr.; J. M. Cotton, Secy., at Houston.

LAS VEGAS & TONOPAH.—We are informed by J. Ross Clark, Pres., Los Angeles, Cal., under date of Oct. 16, that bids will be received in about thirty days for building this railway. Survey party is now in the field. Capital for reconstruction is secured. The railway, which will be 113 miles long, will run from Las Vegas, New Mex., to Corn Creek, Indian Creek, Bullfrog and mining sections. Arthur Maguire, Las Vegas, Nev., is Ch. Engr. Noted on Oct. 5.

MIDLAND.—Surveys are being made for a line extending north from the Northern Pacific at the international boundary to Portage la Prairie, Man., where the line will connect with the Canadian Northern Ry. James Fisher, of Winnipeg, Man., is interested.

MANILA & SOUTHWESTERN.—We are advised that company has three miles ready for laying steel. Company is doing its own construction. The line will be 150 miles long. It is to extend from Malden, Mo., to Kennett and Homersville, Mo.; Manila, Ark.; Culberhouse, and Brinkley. R. L. Williford, Manila, Ark., is Pres. Will Keer is Ch. Engr., at Jonesboro, Ark., and D. A. Smith is Gen. Mgr., at Manila.

NEW YORK, PENNSYLVANIA & SOUTHWESTERN.—The contract for building this road from Binghamton, N. Y., to Williamsport, Pa., is said to have been awarded to ALLEN & DONNELLY. A. K. Harvey, Binghamton, N. Y., is Ch. Engr.

NASHVILLE & LEWISBURG.—Contract for construction of this railway has been awarded to the GENTRY CONSTRUCTION CO., of Chicago. The main line will be operated by steam and the branch lines by electricity. It will be 1,300 miles long.

PAWNEE R. R.—Contract is reported to have been awarded to JOHNSTON & GROMMETT, of Alton, Ill., for an extension which is to be built from Pawnee to Taylorville, Ill., 16 miles. Contract for bridges was awarded to the WISCONSIN BRIDGE & IRON CO., at Milwaukee, Wis. J. J. Hart is Gen. Mgr., Chicago.

PORT ARTHUR & HOUSTON SHORT LINE.—F. J. Hart, Pres., Port Arthur, Tex., has stated, according to Houston press report, that this railway will be built into Houston, via La Porte. C. S. CLEAVER is general contractor.

TEXAS, TULSA & GULF.—This company has been incorporated in Oklahoma to build a line from Tulsa, Ind. T., to Matagorda Bay, and to eventually connect with Kansas City. M. H. Smythe, of Gainesville, Tex., is one of the directors. The others are L. Howard Lee, of Oklahoma City; H. W. Pentecost, of Guthrie; J. W. Helt, of Oklahoma City; M. S. Lee, of Oklahoma City, Okla.; D. B. Merry, of Roswell, N. Mex.

UNION PACIFIC.—Considerable second track work will be done next spring in Wyoming on the Wyoming Division of this road. L. B. Merriam, of Cheyenne, Wyo., the recently appointed Resident Engineer, is now organizing his corps for the new residency.

UNIONTOWN & WHEELING SHORT LINE.—J. V. Thompson, of Uniontown, Pa., and D. F. Maroney are promoting this railroad, which, it is planned, will be built from Uniontown, Pa., to Wheeling, W. Va., through a coal mine section.

WESTERN PACIFIC.—H. S. HUDSON, of Tacoma, Wash., is reported to have been awarded a contract for building the section between San Francisco and Oroville, via Oakland, Cal.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

MERIDEN, CONN.—J. K. Punderford, Gen. Mgr. New Haven Lines, Consolidated Ry. Co., has stated, according to New Haven press reports, that construction of the Meriden-Middletown electric line will be started probably next spring. It will cost about $150,000, exclusive of equipment.

SCHENECTADY, N. Y.—We are informed by W. P. Capes, of Schenectady, that the newly incorporated company to build an electric railway from Schenectady will be known as the Schenectady & Stamford Electric Ry. Co. The president is C. C. Kromer, of Schoharie, N. Y. Projected length is about 50 miles. Route by names of towns as follows: Schenectady, Altamont, West Township, Thompsons Lake, Warners Lake, Berneville, Gallupville, Schoharie, Middleburgh, Fultonham, Blenheim, Jefferson, South Jefferson, Stamford, Broomeville and Delhi. Nearly all of the surveys have been made but no right-of-way has as yet been secured. Capital for construction has not yet been secured. The incorporators are Charles E. Nichols and Dr. Hubbell, of Jefferson; A. V. Baldwin, of Blenheim; J. B. Badgley, James Baker and Robert Gordan, of Middleburgh; Peter Cullings, Charles C. Kromer, J. Wallace Marsh, Dr. O. Snyder and Claude B. Mayhan, of Schoharie; George Zimmer and Edward Plank, of Gallupville; W. P. Capes, of Schenectady, and James H. Hyde, of New York.

BROOKLYN, N. Y.—Bids are asked until Nov. 2 by Brooklyn Grade Crossing Commission for abolishing grade crossings on the Brighton Beach division of the Brooklyn Union Elevated R. R., between Church Ave. and Brighton Beach. John H. Dwyer, 44 Court St., is Engr.-in-Charge. Approximate quantities are: Proposal 1—(A) Earth excavation, 230,000 cu. yds.; (B) concrete in retaining walls and bridge abutments, 43,500 cu. yds.; (C) reinforced concrete at stations, 1,900 cu. yds.; (D) water-proofing at stations, 22,000 sq. ft.; (E) steel columns, 26,000 lbs.; (F) cement platforms, 13,000 sq. ft.; (G) vitrified clay conduits in retaining walls, 150,000 duct ft.; (H) steel I-beams, in 38 manholes; (I) 8,000 ft. of 6-in., 12-in., 18-in. and 24-in. sewer pipe; (J) granite block pavement in gutters, 4,000 sq. yds.; (K) cast iron for drain covers, 50,000 lbs.; (L) reconstruction of Foster Ave. sewer; (M) reinforced concrete arches on highway bridges, 450 cu. yds.; (N—DD) various quantities of flagging, pavements, etc. Proposal No. 2—Bridges. Complete set of plans and specifications for this work are on file at New York office of Engineering News, 220 Broadway.

JERSEY CITY, N. J.—The Hudson Street Railroad Co. has been incorporated with a capital of $3,000,000. The company will build and operate electric lines in Jersey City, Hoboken, Bayonne and other cities in Hudson County. The incorporators are: Pliny Fisk, Wilbur C. Oakum, Andrew Freeman and William G. McAdoo, of New York, and David Young, of Newark, N. J.

TUSCALOOSA, ALA.—J. M. Dewberry and others, of Birmingham, have been granted a franchise by the Council to operate an electric railway in Tuscaloosa and in Jefferson County.

BIRMINGHAM, ALA.—We are informed that the Birmingham Ry., Light & Power Co. is building an extension to Boyles, four miles. Robert Jemison is Pres.; Ford, Bacon & Davis, 24 Broad St., New York, are Engrs.

NASHVILLE, TENN.—Charles S. Brown, Consult. Ch. Engr. for the Nashville Interurban Ry., Steger Bldg., Nashville, advises us that "the route of the line which we propose to construct at present will start from Nashville, running due south, through Brentwood, and on to Franklin, Tenn., and will approximate 21 miles in length. We expect to begin construction early in November. No contract has yet been let. The work presents few difficulties. Maximum grade in city will be approximately 5%, and 2% outside the city. Maximum curvature of 10° outside the city. There will be a steel or concrete-steel bridge over the Harpeth River at Franklin. There will be no tunnels on the line, and few trestles of importance. For motive power, we are considering the use of gasoline motor cars."

NASHVILLE, TENN.—The contract for building the Nashville & Lewisburg Ry. has been awarded to the GENTRY CONSTRUCTION CO., of Chicago. The contract covers the construction of 700 miles of electric railway from Clarksville to Nashville, and 600 miles of steam road from Nashville and east of Tennessee River into Alabama.

BOWLING GREEN, O.—We are informed that right-of-way is secured for a 20-mile extension to Defiance. C. H. McKNIGHT has contract. The line between Bowling Green, Scott Ridge, Pemberville and Woodville, 20 miles, is in operation. Total length will be 65 miles. D. B. Whipple is Pres. E. H. McKnight is Ch. Engr., Bowling Green.

TERRE HAUTE, IND.—We are informed that the Wabash & Southeastern Traction Co. has secured practically all right-of-way and necessary franchises for its line from Terre Haute to Riley, Cory, Jasonville, Worthington, Newark and Bloomington, a distance of 65 miles. The project is tentatively financed. Contracts may be let by December. B. Brown, Terre Haute, is Pres.; O. L. Brown is Aatty.

MARION, IND.—John Ratliff, of Marion, informs us that he has made a survey and is securing right-of-way for an electric railway from Marion to Rigdon, Independence, Elwood and Noblesville. Capital is not secured, but financial arrangements are under consideration. Contract is not let. The line will be 41 miles long. The constructing company can choose engineers when ready for work.

COLUMBUS, IND.—We are advised that surveys have been made for the Ohio Valley Traction Co.'s railway from Columbus, via Nashville, Bedford, Mitchell, French Lick, to Evansville. William Duncan, at present at Brazil, Ind., is Ch. Engr.

INDIANAPOLIS, IND. — GEORGE W. TOWNSEND has transferred to the KEYSTONE CONSTRUCTION CO., of Philadelphia, the contract for constructing the Indianapolis & Western Electric Ry. between Indianapolis and Brazil.

MILWAUKEE, WIS.—We are informed that no contracts will be let for the Milwaukee Electric Ry. & Light Co.'s extension to Watertown. Noted last week.

SIOUX CITY, IA.—We are informed that Wakefield & McCrary, Sioux City, are Engrs. in charge of proposed survey for the Sioux City & Ireton Ry.

MISSOULA, MONT.—We are advised by Geo. W. Dougherty, of Missoula, that company is now being organized to build a 50-mile electric railway through the Bitter Root valley, for which right-of-way has been secured.

ST. JOSEPH, MO.—W[illegible] advised that the proposed line to W[illegible] will be seven miles long, using the [illegible] the St. Joseph & Grand Island R[illegible] to approval of Mr. E. H[illegible] (subject Stout a 7-mile spur to [illegible]). From built, through Wathena, [illegible] will be ance, Kan. Right-of-way [illegible] and Severcilities at each end are [illegible] terminal ger service would be o[illegible] Passemotive power and freight [illegible] gasoline Noted fully last week. [illegible] by steam.

ALBUQUERQUE, N. M[illegible] are informed by M. D. Chadb[illegible] are Albuquerque Traction Co. [illegible] Engr. tensions to the system are [illegible] several exbut that none is definitely [illegible] discussion yet. It was reported that [illegible] upon as be spent. [illegible] 000 would

VANCOUVER, WASH.—T[illegible] Suburban Railway Co. ha[illegible] ated by W. H. C. Sugg, [illegible] R. Sparks, E. E. Bend, E. [illegible] Waite and W. S. Wood. T[illegible] is fixed at $2,500,000. Corpo[illegible] equip and operate street and [illegible] ways for the purpose of [illegible] freight and passengers. Va[illegible] headquarters. [illegible]

TACOMA, WASH.—We are [illegible] location for the Puyallup V[illegible] Co.'s line is completed and [illegible] nearly all secured. Financing [illegible] and construction probably w[illegible] in November. The line, which [illegible] miles long, will extend from T[illegible] allup and may be extended to [illegible] beyond. Fred. J. Chamberlin, [illegible] Pres.; L. A. Nicholson, 50[illegible] Bldg., Tacoma, is Ch. Engr.

SPOKANE, WASH.—Contra[illegible] has been awarded for building the Spokane & Inland Ry., from Spokane to Moscow, Wash., 146 miles. J. P. Graves, Spokane, is Pres. The WASHINGTON WATER POWER CO. has contract to supply power.

PORTLAND, ORE.—We are advised that the company which will build a railway from Portland into the St. Helens mining district will be known as the "St. Helens Public Service Co. Dr. Henry W. Coe is Pres., 603-606 Marquam Bldg., Portland, Ore. Chief Engineer, George W. Lilly, at same address. The motive power is electricity and projected length 200 miles. Route is from Portland, Ore., to Vancouver, Woodland, Kalama, Kelso, Castle Rock and Toutle, Wash.; 110 miles of survey, 30 miles private right-of-way and 40 miles public right-of-way are secured. W. H. Stuart, right-of-way agent, and assistants are in field getting further right-of-way now. Street railway, lighting, water and electric franchises secured in Kelso, Kalama, Castle Rock and Vancouver, the organized cities along the route. Water from the Toutle, Lewis and Kalama Rivers will furnish the power, readily generating 75,000 HP. Engineers are in the field, and will continue at work most of the winter. Dr. Coe possesses ample funds to do all the preliminary work, and has not yet sought capital to construct the road. He will not take up this phase of the matter until toward spring. He is said to be on friendly terms with other large railroad corporations doing business in the west. The line will be standard gage, and expects to enter Portland over the Northern Pacific tracks. Dr. Coe has spent $300,000 in developing copper properties which this 'Loop Line' will reach in the St. Helens mining district, 50 miles north of Portland. There is said to be 40,000,000,000 ft. of standing timber tributary to this line, in addition to mines, rich agricultural, dairying and fruit raising sections."

EUGENE, ORE.—A. R. Black and associates have been awarded franchise for 50 years for an electric railway in this city.

YREKA, CAL.—We are informed that contracts may be let soon for building the Roseborough & Osgood Ry. It will be 40 miles long and will extend from Yreka to Fort Jones, Greenview, Etna and Scott Valley. Surveying is begun and right-of-way secured. Capital is said to have been secured. Mrs. C. B. Gardner, Yreka, is Pres.

SAN DIEGO, CAL.—We are informed by H. T. Richards, Pres. and Ch. Engr., of the Bay Shore & Pacific Ry., that surveys are completed and that contracts will be let soon for construction of that line. It is to be 30 miles long. Motive power will be both steam and electricity.

CHICO, CAL.—Bids are asked by the city council until Nov. 1, for a franchise to construct and operate a street railroad for a term of 50 years along certain streets of Chico, as applied for by David S. Edwards. C. E. Steinogul is Cy. Clk.

GLOBE, ARIZ.—T. D. Morris has been granted a franchise to build an electric street railway line through Globe and North Globe. It will be three miles long. A. C. Zelrath is Engr.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

SOUTH HANSON, MASS. — A company will soon be incorporated, it is reported, to be known as the Hanson Gas & Electric Co., with W. E. Damon as Pres.

CENTRAL ISLIP, N. Y.—Bids are asked by State Commission in Lunacy, T. E. McGarr, Secy., until 3 p. m., Nov. 1, for outside lighting system for Central Islip State Hospital. G. L. Heins, State Arch., Albany, N. Y. (Advertised, Engineering News.)

NEW BRUNSWICK, N. J.—A meeting of citizens was held recently to consider the establishment of a municipal lighting plant. Among those who are said to be interested are mentioned City Treasurer, O. Stillman; J. H. Whitfield, Supt. Board of Water Comrs.; Postmaster Charles W. Russell; Hugh Boyd; Arthur H. Boyd, William H. Ritter, Henry C. Kramer, Louis A. Bevier and others.

MOORESVILLE, N. C.—Bonds for $10,000 will be issued for construction of an electric light plant.

EAST RADFORD, VA.—Capt. W. T. Baldwin, of East Radford, has acquired water power rights along New River for seven miles. It is planned to build a dam and generate about 2,000 HP.

MILLVILLE, W. VA.—The contract, amounting to about $60,000, for furnishing the electrical appliances for the plant and lighting system of the Winchester & Washington Ry. Co. has been awarded to the Baltimore branch of the WESTINGHOUSE ELECTRIC SUPPLY CO. The railway is in course of construction near the Shenandoah River, at Millville, Jefferson County.

ROME, GA.—Preliminary work is under way for development of water power of the Etowah River 12 miles above Rome, at the Horse Shoe Bend. R. L. West, W. W. Murray and P. W. Hardin, of Atlanta, are interested. Company will be incorporated with $500,000 capital stock. Large power plant will be erected.

SPARTA, GA.—Town has voted to issue bonds for the construction of electric light plant. R. W. Wood is Mayor.

FERNANDINA, FLA.—The Consolidated Ry. & Light Co., of Philadelphia, is reported to be interested in plan to build a gas plant in this city.

BIRMINGHAM, ALA.—The Coosa River Power Co. will develop power at Putnam Shoals in the Coosa River; Robert R. Zeil, of Birmingham, is interested. The Amburson Hydraulic Co., of Boston, Mass., has made preliminary plans for a steel-concrete dam. Company is also figuring on cost of entire power development.

CHATTANOOGA, TENN.—The Chattanooga-Tennessee River Power Co. has awarded contract to W. J. OLIVER & CO., of Knoxville, Tenn., for the construction of the concrete work on the lock and dam and the foundations for the power plant in connection with the power company's proposed power developments at "The Suck," 12 miles below Chattanooga. This dam will be 50 ft. high. The power plant will have a capacity of 36,000 HP. Estimated value of contract is more than $1,500,000. When this work is completed the company will then proceed to install its electrical equipment. John Bogart, 16 Exchange Pl., New York, is Engr.

LEXINGTON, KY.—The Central Kentucky Natural Gas Co., with a capital of $1,500,000, has been incorporated to lay pipe lines for natural gas through the principal cities of the state.

FRANKLIN, O.—Council has received bids for city lighting. Matter is under consideration.

TOLEDO, O.—At election to be held on Nov. 7, the city will vote upon proposition to issue bonds for $470,000 for purpose of erecting an electric light plant and works to supply light to city. John A. O'Dwyer is Ch. Deputy.

GRAND RAPIDS, MICH.—The Michigan Hydro-Electric Co. has been incorporated under Maine laws. M. B. Wheeler, Clyde Holmes and Ira Opdyke are the incorporators, all of Grand Rapids. Company will develop power on the White and Manistee Rivers. Company is capitalized at $500,000.

WYANDOTTE, MICH.—Municipal electric light plant will be remodelled, it is reported. It is estimated that it will cost $20,000 to install modern equipment. A. S. McClinahen is Supt.

DELRAY, MICH.—Gas plant will be enlarged. A syndicate of Cleveland, O., capitalists have acquired gas plants below Detroit along the Detroit River.

IRON MOUNTAIN, MICH.—An election will be held on Oct. 25 to vote on plan to issue $20,000 of bonds for an electric-lighting plant.

LOCKPORT, ILL.—Bids were received recently by Trustees of the Sanitary District for building a power house near Lockport and for a transmission line along right-of-way of Sanitary District to Chicago. The Western Electric Co.'s bid, at $300,000, was the only one received covering all the work.

CAMERON, ILL.—The Rock Island Southern Ry. Co. will build a power house at Cameron, it is reported. This company is building an electric railway from Galesburg to Monmouth. Plant may cost $50,000.

CHICAGO, ILL.—The Metropolitan Gas & Electric Co., of Chicago, has been incorporated recently in Delaware, with capital stock of $12,000,000. Joseph C. Markley, Engr., 937 West Adams St., Chicago; Geo. F. Goodnow, of Waukegan, Ill., and Harry W. Davis, of Dover, Del., are the incorporators. Company will buy or construct light, heat and power plants in the United States. Pain & Hurd are Attys., in Chicago.

KILBOURN, WIS.—Philip Spooner, of Madison, Wis., has an option on building a dam across the Wisconsin River at Kilbourn for generation of power.

MILWAUKEE, WIS.—City will advertise for a municipal lighting plant site. $60,000 is available. Alderman F. J. Stiglbauer is interested in ordinance.

HARTLAND, WIS.—The GASOLINE GAS LIGHTING CO., of Des Moines, Ia., has been awarded the contract for municipal lighting plant at $6,000.

CHARLES CITY, IA.—F. O. Martin, of Floyd, and A. L. Dodd, of Charles City, have purchased electric light plant at this place which will be improved and a dam built.

DULUTH, MINN.—Contract for construction of the Great Northern Power Co.'s distributing station has been let to J. W. HILLIARD, of Duluth. F. A. Cokefair is Ch. Engr., of company, at Duluth, and F. O. Blackwell, 49 Wall St., New York City, is Consult. Engr. E. C. Bacot is Ch. Electrical Engr. The work of construction will be under the direct supervision of the National Railway Construction Co., of Boston, Thomas B. Pettigrew, Ch. Engr.

MINNESOTA CITY, MINN.—The Minnesota Light & Power Co. will increase the capacity of its plant. New reservoirs and dam may be built.

OWATONNA, MINN.—The Owatonna Gas, Electric & Heating Co. may install a gas plant in connection with the electric and heating plant now in operation. E. G. Porter is Mgr.

GRAND ISLAND, NEB.—The Grand Island Electric Co. has been incorporated with a capital of $60,000 by Arthur F. Vila, G. H. Payne, Irving F. Baxter and others.

FERGUSON, MO.—The St. Louis County Gas Co. has been granted a franchise in this city to lay gas mains. Work will be undertaken at once.

ARGENTA, ARK.—City will issue bonds for an electric light plant. City will install an electric light plant and water-works at an estimated cost of $65,000. It is desired to engage a first-class mechanical engineer. C. J. Humphreys is Secy., and Collector of the Board, and W. C. Faucette is Mayor.

GEARY, OKLA.—J. J. Paige, Edward Ruggles, J. S. Moffitt, J. S. Morris and Henry Hudson have incorporated the Geary Electric Light & Power Co. Capital stock, $5,000.

DAVIS, IND. T.—J. B. Dickinson will erect an electric light plant in Davis.

DOUGLAS, ARIZ.—City will grant a franchise for supplying city with gas. Also for an electric railway.

TELLURIDE, COLO.—L. L. Nunn, Mgr. Telluride Power Co. has filed application for water rights on the Duchesne River in Wasatch County, Utah. Company will erect a power plant to supply Salt Lake City, Bingham, Mercury, Eureka and other cities in Utah and California.

NORTH YAKIMA, WASH.—The Northwestern Gas & Elec. Co. has been granted a franchise in this city. A gas plant will be built soon. Isaac W. Anderson, Walla Walla, is Mgr.

SPOKANE, WASH.—We are advised that the Big Bend Water Power Co., recently incorporated under the laws of the State of Washington, with offices at Spokane, Wash., on Oct. 1, commenced construction upon a hydro-electric power plant on the Spokane River about 30 miles below the city. The company propose to construct a rock fill dam 140 ft. high, raising the waters of the river 60 ft. and diverting the same into a new channel 150 ft. to 200 ft. wide. By this means over 15,000 HP. can be developed. E. Tappan Tannatt, Bozeman, Mont., has been engaged as Designing and Consulting Engineer for the company; E. R. Abernethey, of Spokane, is Assistant Engr. It is the intention of the company to complete the dam and spillway before June, 1906. Noted last week. Est. cost, $328,550. J. H. Tilsey, Spokane, is in charge of construction.

SUMTER, ORE.—We are informed by Thomas C. Gray, Gen. Mgr. Cable Cove Power Co. that bids will be received soon for construction of a $75,000 water power plant at Baldy Lake, Grant County. 2,000 HP. will be developed. Preliminary surveys are being made. Permission will be secured from Department of the Interior to cross government reserve. Baldy Lake is at a 7,250-ft. elevation and water will fall over 2,000 ft. to power plant which will be located four miles from the lake with a series of dams between. Engineer is not yet secured.

SALT LAKE CITY, UTAH.—We are advised that bids will be received before Nov. 15 by the Inter-Mountain Power Co., for constructing three hydro-electric plants and one steam auxiliary plant. One plant will be located on Big Cottonwood River and another on Little Cottonwood River; a steam plant will be built in the valley. Estimated cost is $500,000. Frank C. Kelsey, 501 Constitution Bldg., Salt Lake City, is Ch. Engr. James J. Chambers, Pres. and Mgr., is in charge of construction. Company has capital of $1,500,000.

CHATHAM, N. B.—Town will apply to the legislature for authority to issue $35,000 of bonds for the construction of an electric-light plant.

HALIFAX, N. S.—We are informed by L. Fred. Monaghan, Cy. Clk., that city council has appointed a special committee to consider and report upon the advisability of establishing a city electric light plant and the feasibility of utilizing a garbage plant for the production of light and power. The committee desires to obtain tabulated statements of the cost of plants and results in other cities.

WINNIPEG, MAN.—It is announced by the local press that the charter of the Great Falls Power Co. has been extended to Jan. 1, 1907, and that this company will soon proceed with the development of 50,000 HP. for transmission to Winnipeg. H. M. Byllesby, of Chicago, will float $6,000,000 of bonds, all of which are said to have been guaranted. Preliminary work is under way.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

GLOUCESTER, MASS.—It is expected that proposals for building new cut bridge will soon be advertised. Address the Mayor.

NEW YORK, N. Y.—We are advised that the New York, Westchester & Boston Ry. Co., 30 Broad St., will receive bids on superstructures for 16 iron bridges to be constructed in Borough of Bronx. Wm. A. Pratt, Ch. Engr.

NEW YORK, N. Y.—For the bids received Sept. 30, at San Juan, Porto Rico, for two highway bridges, see under U. S. Possessions and Cuba.

BROOKLYN, N. Y.—Proposals are invited by the Brooklyn Heights R.R. Co. until Nov. 2, for construction of six highway bridges and 15 railroad bridges in connection with the work of abolishing grade crossings on the Brighton Beach Division. (See under Electric Railways).

HOOSICK FALLS, N. Y.—Bids are asked by the Town Clerk, until noon Nov. 4, for building abutment, parapet and retaining walls together with necessary excavation and filling at Stone School House bridge. (Advertised, Engineering News).

HARRISBURG, PA.—This city will vote, Nov. 7, on the question of issuing $200,000 of bonds for the construction of an overhead foot and wagon bridge. M. B. Cowden is Cy. Engr.

NORRISTOWN, PA.—Reports state that the County Commissioners are selecting site for bridge to be built over Schuylkill River, between Sanatoga and Frick's Lock.

LANCASTER, PA.—It is stated that bids are asked by County Commissioners until Oct. 30 for constructing superstructure of highway bridge over Big Beaver Creek, near Refton.

BALTIMORE, MD.—It is stated that the Highway Commission has directed Road Engineer Shirley to ask for proposals for construction of a bridge on Springtown Road, Fifth district.

HUNTINGTON, W. VA.—This (Cabell) county has voted affirmatively to proposed $120,000 bond issue for the construction of a bridge across Guyan River between Huntington and Guyandotte. Address County Clerk.

GREENVILLE, S. C.—Bids will be received by John W. Walker, Supv. Greenville County, and G. M. Lynch, Supv. Pickens County, until 10 a. m., Nov. 1 for rebuilding Mayfield's bridge over South Saluda River.

ROSEDALE, MISS.—Bids are asked by County Commissioners until Nov. 6 for constructing bridge across Mound Bayou at Cleveland.

WOODVILLE, MISS.—The Board of Supervisors of Wilkinson County has ordered a bond issue of $9,872 for the erection of a steel bridge across Buffalo Bayou at Murray's Ferry.

MEMPHIS, TENN.—The court has authorized the bridge superintendent to advertise for and receive bids on placing new flooring on county bridges north of Memphis.

MEMPHIS, TENN.—Bids will be received until Nov. 20 (change of date) by County Commissioners for construction of two 50-ft. span steel highway bridges on concrete piers as stated in our advertising columns. Chas. A. Barton, Engr.

LEXINGTON, KY.—The city will vote Nov. 7 on the issuance of $27,000 of bonds for the construction of viaduct over Ayers alley. Thos. A. Combs is Mayor; P. P. O'Neill, Cy. Engr.

DAYTON, O.—We are informed that J. C. MORRISON, of Dayton, was the only bidder for erecting bridge at Kercher St. and was awarded the contract at his bid of $2,430 Bids were opened on Oct. 21 by County Commissioners. T. J. Kaufman, County Audr.

LANCASTER, O.—Bids are asked by County Commissioners until Nov. 11 for superstructure of wooden house bridge over Sycamore Creek in Violet Township. Fred. L. Mauger, County Audr.

AKRON, O.—J. W. Payne, Cy. Engr., has completed plans for steel and concrete viaduct, 54 × 129 ft., for the city.

NILES, O.—This city will vote in November on the question of building bridge over the Mosquito Creek.

TIPTON, IND.—Bids are asked by County Commissioners until 2.30 p. m., Nov. 6, for construction of two bridges, or arches, in Jefferson Township. T. W. Longfellow, County Audr.

PLYMOUTH, IND.—County Commissioners are asking for bids for the erection of three iron bridges and two concrete arches. H. L. Singrey is County Audr.

WASHINGTON, IND.—The County Commissioners have awarded contracts to the VINCENNES (Ind.) BRIDGE CO. to construct three bridges in the county.

SOUTH BEND, IND.—Bids are asked by County Commissioners until 10 a. m., Nov. 8, for construction of three concrete culverts and three iron bridges.

PORT HURON, MICH.—Bids are asked by City Comptroller until Nov. 3 for building unfinished portion of canal from Lake Huron to Black River. The work includes building a railroad bridge to carry two tracks and one highway bridge.

PEORIA, ILL.—C. W. Mills, Pres., Peoria, Pekin & Bloomington Interurban Ry. Co., proposes to build a bridge across Illinois River at Cedar St., in Peoria.

PORTAGE, WIS.—Sealed proposals will be received by Common Council until 7.30 p. m., Nov. 7 for constructing superstructure of steel highway bridge across Wisconsin River, consisting of four spans of 160 ft. with a 24 ft. paved roadway and one 6 ft. sidewalk. Plans and specifications may be seen at New York and Chicago offices of Engineering News. D. A. Hillyer Cy. Clk. (Advertised, Engineering News.)

RACINE, WIS.—Committees of the City Council have decided to accept the proposition of the Scherzer Roller Lift Bridge Co. for new deck lift bridge in place of the old Main St., at a cost not to exceed $72,000.

MINNEAPOLIS, MINN.—City Council has passed a resolution calling for the construction of a steel arch bridge over Minneapolis & St. Louis tracks, at Superior Ave. Cost, about $00,000. Andrew Rinker is Cy. Engr.

TWO HARBORS, MINN.—We are informed that the contract for constructing steel bridge across Knife River has been let by County Commissioners to the JOLIET (Ill.) BRIDGE & IRON CO., for $1,750.

FARGO, N. DAK.—Bids are asked by Arthur G. Lewis, County Auditor, until Nov. 7, for the construction of one 80-ft. bridge on line between Traill and Cass Counties.

JEFFERSON CITY, MO.—F. W. Roer, County Clerk, writes us that the County Commissioners will receive bids until Nov. 9 for the construction of a steel bridge about four miles from Jefferson. Est. cost, $4,000.

GREAT FALLS, MONT.—County Commissioners are considering the construction of a highway bridge across Missouri River at Ulm.

GREAT FALLS, MONT.—Contract for building the new steel bridge over the Missouri at this point for the Montana Central has been let to NEWMAN & HOY, of St. Paul. Cost will be about $75,000.

MONTE VISTA, COLO.—Bids are asked by T. W. Jaycox, State Engr., Denver, until Nov. 6 for constructing a combination bridge, 150 ft. span, across Rio Grande River, near Monte Vista.

BELLINGHAM, WASH.—The County Commissioners have decided to replace the old wooden bridge across the Nooksack at Welcome with a steel bridge which will cost about $7,500. Bids will be considered Nov. 8. The present structure has been condemned.

SALEM, ORE.—Special Committee on Bridges of the Council opened bids for the construction of a cement bridge over Mill Creek on East State St. G. F. Royal & Son, the lowest bidders, submitted two designs for steel bridge. No. 1, plate girder with paved floor, $4,745; No. 2 plate girder with wood floor, $3,000.

TILLAMOOK, ORE.—G. B. Lamb, County Clk., will receive plans and specifications until 2 p. m., Nov. 1 for several steel bridges.

SAN BERNARDINO, CAL.—Harry Allison, Cy. Clk., will receive sealed bids until 7 p. m., Nov. 6 for construction of bridge over Warm Creek on Mill St.

VENTURA, CAL.—Bids are asked by Board of Supervisors until Nov. 9 for construction of bridges across Ventura River.

MADERA, CAL.—Plans and specifications of the Berenda slough and Chowchilla Creek bridges have been accepted and adopted by Board of Supervisors.

UKIAH, CAL.—Bids are asked by Board of Supervisors until Nov. 3 for construction of bridge across Indian Creek.

SAN FRANCISCO, CAL.—We are informed that the bids for widening of steel bridge at San Jose and Mt. Vernon Aves. will be received by Department Public Works until Oct. 28. Est. cost, $15,000. Thos. P. Woodward, Cy. Engr.

OTTAWA, ONT.—We are advised that the County Council has awarded contract for constructing concrete bridge over Rideau to the STEEL & CONCRETE BRIDGE CO., of Montreal, Que. Cost, about $19,945.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

WILLIAMSTOWN, MASS.—J. D. WILLCUTT & SON, 166 Devonshire St., Boston, have been awarded the contract for constructing a dormitory building for Williams College, at Williamstown, to cost about $125,000. Allen & Collins, Archs., 6 Beacon St., Boston.

BOSTON, MASS.—Brainard & Leeds, 8 Beacon St., are the architects for building for the Salvation Army, to be erected at Washington and East Brookline Sts. Bids are in, but the contract has not been awarded. Cost, $125,000.

SAUGUS, MASS.—Bids will be received until Nov. 1, for constructing a school building at Saugus, to cost about $50,000. Prescott & Sidebottom, Archs., 113 Devonshire St., Boston.

BOSTON, MASS.—Bids will close Oct. 26, for construction of an office building at 399-407 Boylston St., for the Warren Chambers Trust. Wheelwright & Haven, Archs., 110 Boylston St.

HARTFORD, CONN.—The Board of Contract and Supply has awarded to the VAN DORN IRON WORKS, of Cleveland, O., the contract for 54 steel cells for police station, at $23,997.

NEW YORK, N. Y.—C. O. Mailloux, 76 William St., has been appointed electrical engineer for new club house for New York Club. Mentioned Oct. 19.

Schwartz & Gross, Archs., 35 West 21st St., have completed plans for an apartment to be erected at Morningside Ave., 115th to 116th St., for Paterno Bros., 557 West 183d St. Brick, stone and terra-cotta, semi-fireproof, 6 stories, 75 × 80 × 90 ft.

Chas. Brendon & Co., 500 Fifth Ave., Archs., want bids on switchboards and electric wiring for residence to be erected at 73d St. and Lafayette Boulevard, for W. M. Kingsley, 40 Wall St. Brick and stucco, 3 stories, 40 × 60 ft.

C. O. Mailloux has been appointed electrical engineer for new club house to be erected at 44th St., near Broadway, for the Alpha Delta Phi Club, from plans by Palmer & Hornbostel and L. C. Brown, 40 Cedar St. Brick, stone and steel, fireproof, 8 stories, 35 × 100 ft.

A. J. ROBINSON CO., 123 East 23d St., has been awarded general contract for erecting club house for The Art Club, at 119-21 East 19th St. G. B. Post & Sons, Archs., 33 East 17th St., and Pattison Bros., 949 Broadway, are Consult. Engrs. Brick, stone and terra-cotta, fireproof, 7 stories, and mezzanine, 60 × 90 ft.

H. Bessing, 32 East 28th St., will act as electrician for new Academy of Music, and will also prepare plans and superintend the installation of all engineering apparatus therein. The building will be located at Lafayette Ave. and St. Felix St., Brooklyn. Herts & Tallant are Archs., 32 East 28th St. Brick and stone, fireproof, 1½ stories, 200 × 180 ft. Plans for building have been completed, and plans are under way for engines, generators, boilers, heating and ventilating, etc. Cost, $700,000.

Eidlitz & McKenzie, Archs., 1123 Broadway, want figures on electric wiring and switchboards for new Tremont Telephone Bldg., in course of erection at Webster Ave. and 178th St., for the New York Telephone Co. Brick, 3 stories, 52 × 90 ft. D. C. WEEKS, 289 Fourth Ave., is general contractor.

Chas. Stegmayer, Arch., 396 East 82d St., wants figures on electric wiring, switchboards and fixtures for stable in course of erection at 127th St. and Convent Ave., for E. Michaelson, 305 West 133d St. Brick and stone, 2 stories, 40 × 90 ft. P. BOYLE & SON, 500 West 44th St., are the general contractors.

Raymond F. Almirall, Arch., 51 Chambers St., has plans in progress for hospital for consumptives, to be located at Staten Island,

for the City of New York, care Dr. Darlington, Health Comr. There will be four buildings, each 100 x 400 ft., 3 stories, brick and concrete; power house, 60 x 60 ft., 1 story.

R. L. Daus, Arch., 130 Fulton St., has plans in progress for $2,000,000 addition to be made to the Hoffman House early in the spring. F. S. Kinney, 135 Broadway, is the owner. The building will be erected at 24th St. and Broadway. An isolated plant will be installed, which will require 800 HP. of boilers, 600 HP. of engines, and 400 KW. of generators.

GLOVERSVILLE, N. Y.—Wilson Potter, Arch., 3 Union Sq., New York City, has plans in progress for high school building, to be erected at Gloversville, to cost $100,000. Brick and stone, semi-fireproof, 5 stories, 75 x 125 ft.

NEW YORK, N. Y.—Horgan & Slattery, Archs., 1 Madison Ave., are taking figures on the new $500,000 stables to be erected at 24th and 25th Sts. and Lexington Ave., for Fiss, Doerr & Carroll, 147 East 24th St. Brick, stone and steel, 12 stories, 170 x 225 ft. General contract includes everything.

C. Dunne, Arch., 330 West 26th St., is preparing new plans for loft building, to be erected at 18 West 21st St., for Mrs. Josephine Robinson, 34 West Ninth St. Brick and stone, fireproof, 10 stories, 50 x 100 ft. J. A. LUCEY, 330 West 26th St., is the general contractor, and wants bids at once on subcontracts.

REIS & O'DONOVAN, 1123 Broadway, have been awarded the contract for electric wiring and switchboards to be installed in the $200,000 addition to riding academy at 58th St., for J. J. Astor, 21 West 26th St., from plans by B. L. Gilbert, 50 Broadway. Brick and stone, 4 stories, 125 x 200 ft. P. J. CARLIN, 1 Madison Ave., is general contractor.

R. L. WALSH CO., 100 William St., has been awarded general contract for $100,000 chapel and convent to be erected at 140th St. and Broadway, for the Corporation of St. Regis, 626 West 140th St., from plans by J. H. McGuire, 45 East 42d St. Brick, stone and cement, semi-fireproof, 1 and 3 stories, 77 x 85 ft. Architect is taking figures on wiring.

Samuel Green, 35 Nassau St., is taking figures on mason work, carpenter work, heating, and ventilating, boilers, electric wiring, and switchboards, plastering and foundations, for new loft building to be erected at 45 West 34th St. Samuel Sass, Arch., 23 Park Row. Brick and stone, 6 stories, 50 x 200 ft. Owner will superintend.

NEWARK, N. J.—J. F. Rowland, Arch., 15 Exchange Place, Jersey City, has completed plans for new club house to be erected by the Elks at Green St., Newark. Brick, 4 stories, 50 x 155 ft., fireproof. Heating system and electric wiring will be required.

HOBOKEN, N. J.—The Board of Education, care Daniel Haggerty, will soon issue bonds for the erection of a new high school, to cost $250,000. Architect has not yet been selected, but will be considered soon.

EAST ORANGE, N. J.—W. B. Tubby, Arch., 81 Fulton St., New York City, has started plans for $125,000 grammar school, to be erected at Park Ave. and Clinton St., East Orange, for the Board of Education, care Watson Merrill, 256 Broadway, New York City. Brick and stone, 2 stories, 65 x 220 ft., and an auditorium, 80 x 80 ft.

LONG BRANCH, N. J.—S. J. Joyner, Arch., 1133 Broadway, New York City, has plans in progress for casino to be erected at Long Branch, to cost $150,000. Wood and steel, 3 stories, glass covering, 100 x 450 ft.

PITTSBURG, PA.—T. E. Bilquist, Arch., Stevenson Bldg., is taking preliminary estimates for Cram, Goodhue & Ferguson, Archs., Boston, Mass., on the Calvary Protestant Episcopal Church, Pittsburg. Cost, $200,000.

HARRISBURG, PA.—This city will vote Nov. 7 on the question of issuing $250,000 of bonds for the erection of a city hall.

PHILADELPHIA, PA.—Bids are asked by Bureau of Yards and Docks, U. S. N., Washington, D. C., until 11 a. m., Nov. 8, for heating system for building No. 18 at Navy Yard, League Island, Pa. Specifications may be seen at office of Engineering News, 220 Broadway, New York City. Mordecai T. Endicott, Ch. of Bureau.

READING, PA.—A. A. Richter, Arch., Colonial Trust Bldg., is preparing plans for a large church for St. Cyrill R. C. Church.

NEW CASTLE, DEL.—The Board of Education, E. Phillips, Secy., will have plans prepared for three-story high school.

BALTIMORE, MD.—Theodore Cook, 914 North Charles St., will erect 30 two-story dwellings on Jackson St., near Fort Ave., to cost about $35,000.

J. Frank Turner, North Ave. and Charles St., will erect an apartment house on North Ave., to cost about $40,000.

Henry S. Rippel, 7 Clay St., is the lowest bidder, at $16,990, for the construction of an addition to women's jail, and will probably be awarded the contract by the Municipal Board of Awards.

WASHINGTON, D. C.—The Board of Education of District of Columbia has submitted its report to the District Commissioners. In the estimates provision is made for 15 entirely new school buildings. This does not include the building which will be added if the extension to McKinley Training School is authorized. This, it is estimated, will cost $135,000. $125,000 is asked for improvements and repairs, $85,000 for the purchase of sites now available for the erection of more schools in the future, and $50,400 for the completion of Cardoza and Hyde schools.

WINCHESTER, VA.—Barney & Chapman, Archs., 520 Fifth Ave., New York City, have plans in progress for library to be erected at Winchester. Brick and stone, 3 stories, 100 x 300 ft.

CHARLESTON, W. VA.—The Y. M. C. A. will erect a building, to cost $50,000. No plans made. Address the Secretary.

FAIRMONT, W. VA.—We are informed that the contract for high school here has been let to HOLBUT & SPIDDEN, of Fairmont, for everything but the indirect steam heating. Address the Secretary of Board of Education.

MULLET KEY, FLA.—Bids are asked by James Knox Taylor, Supervising Arch., Washington, D. C., until 3 p. m., Nov. 27, for improvements at Tampa Bay Quarantine Station, Mullet Key, Fla. (Advertised, Engineering News.)

PENSACOLA, FLA.—Bids are asked by James Knox Taylor, Supervising Arch., Washington, D. C., until 3 p. m., Nov. 27, for construction of a hospital, wharf, etc., at Santa Rosa Quarantine Station, Pensacola, (Advertised, Engineering News.)

JACKSON, MISS.—The Norvelle Hotel, burned recently at a loss of $150,000, will be rebuilt by the owners, Frank G. Jones and Gen. S. T. Carnes, of Memphis.

MEMPHIS, TENN.—The Speedway Land Co., capital $200,000, will erect 30 residences in this city. Finley W. Faxon is Pres.

NASHVILLE, TENN.—Carpenter & Blair, Archs., 571 Fifth Ave., New York City, have plans in progress for bank and office building to be erected at Nashville for E. B. Stollmann, of Nashville. Brick, stone and terra-cotta, 12 stories, 105 x 150 ft. Cost, $1,000,000.

BRISTOL, TENN.—A $50,000 hotel will be erected here. Barber & Klutz, Archs., Knoxville.

NASHVILLE, TENN.—Carpenter & Blair, Archs., New York City, have plans in progress for new library to be erected here for Vanderbilt University. Brick and stone, 4 stories, 75 x 200 ft. Cost, $150,000.

LOUISVILLE, KY.—A $200,000 opera house will be erected here. Jos. L. Rhinock, of Covington, is one of the promoters.

AKRON, O.—The citizens will vote on a project to issue bonds for a $90,000 addition to high school at the November election.

CINCINNATI, O.—Plans for new Olympic Theatre for John J. Ryan, First National Bank Bldg., are being prepared by Boll & Taylor, Archs., Fourth and Walnut Sts. It will be 75 x 117 ft., of steel and reinforced concrete, fireproof; seating capacity, 1,500. Cost, $150,000.

BROAD RIPPLE, IND.—J. H. Stem, Arch., Claypool Bldg., Indianapolis, is working on plans, and will be ready for bids in about 30 days for an amusement park at Broad Ripple, for Labb & Given, English Hotel, Indianapolis. Cost, $300,000.

INDIANAPOLIS, IND.—The Board Public Works has purchased site and will soon ask for bids for new fire house. Cost, $75,000.

TERRE HAUTE, IND.—W. H. Albrecht will soon ask for bids for the construction of a business block on Wabash Ave.

PLYMOUTH, IND.—The Commissioners of Marshall County are asking for bids for the installation of heating plant in the county jail. H. L. Singrey is County Audr.

DETROIT, MICH.—E. A. Schilling, 47 Peninsular Savings Bank Bldg., will have plans ready for figures about Nov. 1 for an entertainment hall to be erected at Belle Isle Park, for the Department of Parks and Boulevards, R. E. Bolger, Comr., 7 Peninsular Savings Bank Bldg. Cost, $90,000.

DETROIT, MICH.—John Scott & Co., Archs., 518 Moffat Bldg., are preparing plans for fireproof theatre and music hall, for syndicate represented by Wm. H. Murphy, Jefferson and Bellevue Aves., and Fred K. Stearns, 1343 Cass Ave. Cost, $500,000.

DETROIT, MICH.—Joy & Barcroft, Archs., 407 Ferguson Bldg., are preparing plans for five-story hotel and bath house for syndicate, represented by Wm. E. Maclem, agent, 321 Hammond Bldg. Cost, $100,000.

CHICAGO, ILL.—H. L. Ottenheimer, Arch., 134 Monroe St., is preparing plans for store and flat building, to be erected on 12th St., for Wesley Dempster, 164 Dearborn St. Cost, $100,000.

Same architect is preparing sketches for an apartment building to be erected on the south side for Geo. F. Stewart. Cost, $150,000.

L. M. Mitchell, 145 La Salle St., has completed plans for an apartment house, to be erected at 41st St. and Gladys Ave., for Emil E. Baumgarten, 2107 West Harrison St. Bids will be received by the owner. Cost, $50,000.

Same architect is also preparing plans for an apartment building to be erected at Indiana Ave. and 37th Place for Geo. C. Watts, 85 Dearborn St. Bids will be received by the owner about Nov. 1. Cost, $125,000.

H. L. Newhouse, Arch., 4630 Prairie Ave., is preparing plans for two apartment buildings, to be erected at 5711 Michigan Ave., for Dr. T. J. Sullivan. Cost, $60,000.

CHICAGO, ILL.—Plans are being prepared by Perley Hale, Arch., 134 Clark St., for an apartment building to be erected at 66th St. and Kimbark Ave., for J. C. Paquet. Bids will be received by owner. Cost, $65,000.

Pruitt & Moore, 125 La Salle St., will erect an apartment building at 50th and Champlain Ave. Cost, $75,000.

WAUSAU, WIS.—The Board Public Works will receive sketches up to Nov. 1 for a city hall. Address Geo. A. Steltz, Chn. Com.

DANBURY, IA.—Bids are asked by M. D. Cord, Danbury, also at office of Eisentraut-Colby-Pottenger Co., Archs., Sioux City, Ia., until 2 p. m., Nov. 20, for construction of a public school building at Danbury.

FORT DES MOINES, IA.—Bids are asked by L. Hardeman, Q.-M., until 2 p. m., Nov. 14, for construction of a cavalry drill hall at Fort Des Moines.

DULUTH, MINN.—The Y. M. C. A. has had preliminary sketches made for building to be built next year. Competitive plans will be asked for. Cost, $150,000.

ST. PAUL, MINN.—J. Walter Stevens, Arch., New York Life Bldg., is preparing plans for a six-story addition to McKibben, Driscol & Dorsey's glove and fur establishment, Fifth and Sibley Sts. Cost, $60,000.

MINNEAPOLIS, MINN.—Bertrand & Chamberlain, Archs., are preparing plans for building for the Bethel Settlement Association, to be erected at Fourth St. and 16th Ave., S. Cost, $50,000.

LINCOLN, NEB.—The following bids were opened Oct. 19 at the office of Jas. Knox Taylor, Supv. Arch., Washington, D. C., for an electric passenger elevator and hydraulic lifts in the U. S. court-house and post-office at Lincoln: Marine Engine & Machine Co., New York City, $11,480; Otis Elevator Co., New York City, $9,790; Brodessor Elevator Mfg. Co., $10,750.

DEADWOOD, S. DAK.—All bids for heating in U. S. post-office at Deadwood have been rejected. Jas. Knox Taylor, Supv. Arch., Washington, D. C.

DEADWOOD, S. DAK.—Sealed proposals will be received by Wm. McLaughlin, County Audr., until 3 p. m., Nov. 3, for the erection of a two-story and finished basement, stone and brick court-house, to be erected at Deadwood. Bell & Detweiler, Archs, Minneapolis, Minn.

EVANSTON, WYO.—Bids are asked by Jas. Knox Taylor, Supv. Arch., Washington, D. C., until 3 p. m., Nov. 22, for low pressure steam heating apparatus, complete in place, for U. S. post-office and court-house at Evanston.

KANSAS CITY, MO.—Bids will be received by Jas. L. Phelps, Clk. County Court of Jackson County, Independence, Mo., until 11 a. m., Nov. 28, for construction of cells for prisoners in jail building, at Kansas City.

JOPLIN, MO.—An election will be held here Dec. 5 to decide the question of issuing $25,000 of bonds to erect a new city jail. Address the Mayor.

ST. LOUIS, MO.—The city will erect an administration building at a cost of $34,875. Address the Mayor.

DALLAS, TEX.—A six-story addition will be erected to the Oriental Hotel at a cost of $150,000. THEODORE M. BELLHARZ is the general contractor.

EL PASO, TEX.—The El Paso & Southwestern Ry. Co. will erect a brick office building at a cost of $100,000.

ENID, OKLA.—County Commissioners will receive bids for the construction of new court-house. Bonds have been voted to the amount of $100,000 for this purpose.

YAKIMA, WASH.—W. W. FELTON, of North Yakima, was awarded the contract for constructing new county court-house here, including jail, for $77,400.

SPOKANE, WASH.—The contract for construction of terminal station for the Spokane & Inland and Coeur d'Alene & Spokane Electric Ry. Cos. has been let to P. L. PETERSON, for $95,000.

LOS ANGELES, CAL.—A $75,000 bank building is to be erected at Spring and First Sts. Morgan & Walls, Archs., 232 North Main St.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

BURLINGTON, VT.—We are informed that lowest bids, opened Oct. 19 for constructing wells at Fort Ethan Allen were as follows: Artesian Well Supply Co., Providence, R. I., wells at $4 per ft. and testing at $19 per day; J. M. Williams, $3,50 per ft. for 350 ft., $4 per ft. over 350 ft., and testing at $50 per day. No bids were received on piping the wells. Capt. T. P. Lamoreux, C. Q. M., in charge.

NORTH BENNINGTON, VT.—We are informed that committee on installing water-works here has not made its report as yet. C. D. Phillips is Town Clk.

CHICOPEE, MASS.—County Commissioners have approved plans and specifications for a dam to be built at Sixteen Acres for the J. Stevens Arms & Tool Co. Dam is to be constructed of earth, with masonry core extended at either end by sheet piling.

FITCHBURG, MASS. — Aldermen have voted to acquire land to extend water service to Lake Wachusett at an est. cost of $49,900. Thos. C. Lovell is Supt. W.-W.

PALMER, MASS.—County Commissioners have approved plans of Palmer Water Co. for the enlargement of the dam at its lower reservoir.

SPRINGFIELD, MASS.—At an informal meeting of the city Council Oct. 20, resolutions were passed favoring the establishment at once of a filtration plant on the Ludlow system, and the immediate taking of action looking towards a new source of supply.

WORCESTER, MASS.—Frederick A. McClure, Cy. Engr. in a report to Council on feasibility of increasing storage capacity of Holden water system advocates raising of one of the dams from 30 ft. to 57 ft. to increase storage capacity to 1,600,000,000 gallons. Est. cost of increasing storage capacity is set at about $614,000.

OXFORD, MASS.—We are advised that Oxford Water Co. has been organized and plans are being prepared for installation of its water-works, est. cost of which is $40,000. Supply is to be from driven wells and stand-pipe. Prices are wanted on pipe, hydrants, valves, and contract work for doing the job. Prices are also wanted on pumping station complete, etc. A. M. Chaffee is official in charge.

ROSLYN, N. Y.—Company may be formed to install water-works here.

BRIARCLIFF MANOR, N. Y.—Briarcliff Water Co., of Briarcliff Manor, capitalized at $50,000, has been incorporated. Walter W. Law, David B. Plummer and Sherman C. Dennis, all of Briarcliff Manor are interested. Company is organized to furnish water and dispose of sewage.

STOCKHOLM, N. J.—B. Nicoll & Co., 50 Wall St., New York, according to reports, are to erect dam and form reservoir at Canistear, about four miles from this place.

HOPEWELL, N. J.—Referring to proposed extension of municipal water-works we are informed that T. Chalkley Hatton, Wilmington, Del.: designed system [illegible] water-works and appraised value of [illegible] plant as owned and operated by priv[illegible]ties. Loan has been authorized to [illegible] the plant and make necessary ext[illegible] and improvements thereto. Det[illegible]uch have not yet been decided upo[illegible] Chalkley Hatton, Wilmington, Del., [illegible] Engr.; H. J. Sutphen, Secy. of [illegible] official in charge. Mentioned last [illegible]

TREVORTON, PA.—Resid[illegible] this place will form stock company [illegible] works to supply this place.

DALLASTOWN, PA.—Da[illegible] Water Co. is to increase capital sto[illegible] $12,000 to $30,000, the proceeds to [illegible] for improvements.

LEBANON, PA.—Bids are [illegible] until noon, Nov. 16, for furnishing [illegible]rial and constructing water-works for [illegible] township of West Lebanon. Work includ[illegible]out 14,000 ft., 4-in., 6-in., 8-in. and [illegible] bell and spigot pipe and roofed reserv[illegible] 300,000 gallons capacity. H. S. [illegible] Pres. Comrs.; John N. Shaeffer, Clk. [illegible]ertised, Engineering News.)

HOMESTEAD, PA.—Borou[illegible] Council, Thos. L. Davis, Chn., is stat[illegible] be considering proposition to compel [illegible]dents to use water by meter.

MORRISVILLE, PA.—Borough [illegible]ncil is stated to have authorized the [illegible]ruction of a filtration basin to receive [illegible] from Delaware River by gravity.

WILLIAMSBURG, PA.—Bids [illegible] opened Oct. 11 by W. P. Trostle, Secy. [illegible], for furnishing and laying about 1[illegible] ft. 8-in. and 2,700 ft. 6-in. cast iron p[illegible] building dam, etc., the contract being aw[illegible] to the INTERNATIONAL CONSTRUCTION CO., Bessemer Block, Pittsburg, Pa., for $18,314. Henry & Dillman, Boro. Engrs., Altoona, Pa. See under Contract Prices for itemized bids.

NEWARK, DEL.—Council has awarded contract for laying 6-in. water main from P., B. & W. station to FRITZ & PARTRIDGE for $3,479.

ANNAPOLIS, MD.—Contract for construction of reservoir at U. S. Naval Academy (bids opened Oct. 11) has been let to NOEL CONSTRUCTION CO., Baltimore, Md., for $21,000.

SALISBURY, MD.—Syndicate headed by Louis Dalmas, Philadelphia, Pa., has taken over plant of Salisbury Water Co. Several extensions and other improvements are to be made, it is said. Office of company is in News Building, Salisbury.

WASHINGTON, D. C.—Following bids were opened Oct. 20 by Isthmian Canal Commission for tower and tanks; (1) steel water tank, capacity 500,000 gallons, delivered and erected at Mt. Hope, Canal Zone; (2) steel water tower and tank, 400,000 gallons capacity, delivered and erected at Colon; (3) steel water tower and tank, 50,000 gallons capacity, delivered and erected at Culebra, Canal Zone: Horace C. Horton, proprietor Chicago Bridge & Iron Works, Chicago, (1) $9,950, time 150 days; (2) $22,700, 180 days; (3) $3,400, 120 days. Riter Conley Manufacturing Co., Pittsburg, Pa., (1) $14,451, 156 week days; (2) $27,753, 208 week days; (3) $5,190, 182 week days. Tippett & Wood, Phillipsburg, N. J., (1) $14,647, 130 days; (2) $24,142, 190 days; (3) $3,800 if awarded jointly with one or both of the other items, 245 days; $4,900 if awarded alone, 130 days.

FRANKLIN, VA.—We are informed that this place has voted to install water and sewerage plants. Surveys are to be made in November and specifications will be ready in December. Contract will be let some time in January. Chas. S. York, 1526 E. Biddle St., Baltimore, Md., is Engr.

NEWPORT NEWS, VA.—Resolution has been introduced in Council looking to installation and operation by the city of water-works.

RICHMOND, VA.—Thomas A. Barry & Co., Richmond, Va., at $55,000, is stated to have been lowest bidder for construction of 5 ft. reinforced concrete conduit about one mile long, bids for which were opened Oct. 16 by Chas. E. Bolling, Supt. W.-W.

PIEDMONT, W. VA.—Piedmont Water-Works Co., capitalized at $30,000, has been chartered to construct and operate a system of water-works. T. B. Davis, H. B. Carroll, Timothy D. F. Graham and W. S. Smallwood, all of Piedmont, are interested.

CARTHAGE, N. C.—Town contemplates installing water-works and sewerage.

SALEM, N. C.—City may vote for $100,000 bond issue, $79,000 of which would be for purchase of local water-works, and the remainder for making extensions, etc. H. A. Siddall is Chn. Water and Light Com.

GREENSBORO, N. C.—Bids were opened Oct. 16 by Water and Light Commission, J. M. Bandy, Ch. Engr., for constructing a water conduit, 5.83 miles long, made up of 18-in., 20-in. and 24-in. pipe, and one mile of 20-in. force main, and a 20,000,000-gallon reservoir. The contract for furnishing the pipe was awarded to the EXCELSIOR WOOD PIPE CO., San Francisco, Cal., for $58,000. All other bids were rejected, and at the time our informant wrote the commission had not decided what action to take about the remainder of the work. The following bids were received for this part of the work: On all items, N. H. Kelly, Asheville, N. C., $133,735; Gleaves & Co., Lynchburg, Va., $139,419. Reservoir, Ogburn & Hobbs, Greensboro, $52,943; W. R. Pleasants, Greensboro, $50,000.

MILLEDGEVILLE, GA.—All bids received Oct. 18 by Board Trustees Georgia State Sanitarium for construction of water-works and filtration plant were rejected. New bids are to be taken. T. H. De Saussere, Engr., Milledgeville.

NEW ORLEANS, LA. — Following bids were received Oct. 20 by Bureau Yards and Docks, Washington, D. C., for drilling an artesian well, 800 ft. deep, at the naval station, New Orleans: P. J. Paterno & Co., Commercial Bank Bldg., New Orleans, $2,570; A. B. Blakemore, New Orleans, $2,400.

BILOXI, MISS.—Election may be held to vote on issue of $15,000 additional water bonds. A $10,000 issue for installation of underwriters' pump, water main extension and automatic fire alarm system has already been authorized.

BRISTOL, TENN.—Council has voted to accept proposition of Samuel L. King for purchase of his water-works for $150,000, subject to ratification of citizens at special election to be held soon. About $100,000 will be spent, it is said, in securing new source of supply.

ST. HENRY, O.—Village contemplates putting in water works for fire and commercial use. W. H. Bomer, Henry A. Beckman and Mayor Geo. W. Schlosier are interested.

WYOMING, O.—Rensselaer Park is seeking to have this place extend its water mains to that town. Wyoming Post Office is Station 22, Cincinnati, O.

PERRYSBURG, O.—Following bids were received Oct. 18 by Trustees Public Affairs for steel tank and tower, pipe and special work and valves and hydrants: Riggs & Sherman Co., Engrs: Steel tank and tower, Chicago Bridge & Iron Works, $2,756; Des Moines Bridge & Iron Works, $2,825; Tippett & Wood, $3,294; Fort Wayne Foundry & Mach. Co. (16 ft. × 112 ft., standpipe), $3,500; Reeves Bros. Co., $3,700; Meehan Boiler & Const. Co., $4,101. Pipe and special work: The National Supply Co., $8,029; U. S. Cast Iron Pipe & Foundry Co., $8,-215; The Massillon Iron & Steel Co., $8,682; The Arbuckle-Ryan Co., $9,110. For furnishing valves and hydrants. Rensselaer Mfg. Co., at $1,113 was low bidder.

CRAWFORDSVILLE, IND.—We are advised that plans and material for proposed improvements of Crawfordsville Water & Light Co., mentioned in our last week issue, have been arranged for.

SULLIVAN, IND.—Town Board may call election to vote on raising $25,000 for securing a pure and adequate water supply.

INDIANAPOLIS, IND. — Board Public Works has been requested to lay additional water mains in Brightwood.

IRON MOUNTAIN, MICH. — A $30,000 bond issue was to be voted on Oct. 25, $10,-000 of which was for water-works.

BATTLE CREEK, MICH.—We are advised that efforts have been made to have the city water-works removed from Gognac Lake to a point called Verona Wells, a distance of about five miles. The matter, however, failed to receive the two-thirds vote of the common council necessary to submit the question of bonding for $250,000 to the voters at a special election, which was to be held next month, nearly all of the aldermen favor the project, but it has met with considerable opposition from the business men. It is probable that necessary land will be purchased, but that is all that will be done this year. W. W. Brigden is Engr. and Supt. W.-W.

CHICAGO, ILL.—Bids are asked by Department of Public Works, J. M. Patterson, Comr., until 11 a. m., Dec. 1, for furnishing and delivering water meters.

QUINCY, ILL.—We are informed that Citizens Water-Works Co., J. M. Winters, Secy., has ordered 1,200 ft. 10-in. main from U. S. Cast Iron Pipe & Foundry Co. and will lay this through a district where such a main was demanded by the insurance companies.

WATERLOO, IA.—City Council is stated to have rejected proposition of the N. H. Harris Co., of Chicago for renewal of the water franchises.

INDEPENDENCE, KAN.—Bids are asked by T. N. Sickels, Cy. Clk., until 3 p. m., Nov. 15, for furnishing material and installing mechanical filtration plant in three units of 500,000 gallons daily capacity. Burns & McDonnel, Engrs., Kansas City, Mo. Bids are also asked for furnishing and erecting pumping machinery, boilers, power house, reservoirs, hydrants, valves, etc., and for hauling and laying cast iron pipe and specials.

BILLINGS, MONT.—City is considering municipal ownership of water-works, and with that end in view, is stated to have secured H. W. Scott, Asst. Cy. Engr., Seattle, Wash., to make estimates for a low pressure gravity system.

LEES SUMMIT, MO.—Water-works will probably be installed here. Local Commercial Club is reported back of project.

LOUISIANA, MO.—Election is to be held Oct. 31 to vote on granting franchise to Louisiana Water Co. C. M. Davis is Mayor.

KANSAS CITY, MO.—Bids were opened Oct. 14 by Board Public Works, Everett Elliott, Secy., for material, labor, etc., for constructing two shafts of 8 ft. inside diameter, and connecting same under Kaw River with a tunnel 7 ft. inside diameter and about 1,125. The contract was awarded to A. M. BLODGETT, Kansas City, Mo., for $78,737.

LITTLE ROCK, ARK.—Municipal water and light plant is to be constructed for village of North Little Rock, according to reports. C. J. Humphreys, 104 East Fourth St., Little Rock, is a Comr.

FAYETTEVILLE, ARK.—Council contemplates securing water-works at a cost of $100,000.

ARGENTA, ARK.—Municipal water-works and electric light plant commission has reported to Council that a water and lighting plant could be erected for $85,000.

JACKSONVILLE, TEX.—Contract for constructing water-works for this city (bids opened Oct. 10) has been awarded to W. W. COOK & SON, Kansas City, Mo. Works will cost about $30,000.

ASPEN, COLO.—City has voted to purchase local water-works.

MANITOU, COLO.—Town has had surveys made for increasing its water supply by a pipe line from north slope of Pikes Peak.

BOULDER, COLO.—City is stated to have secured option on water rights of Silver Lake Ditch & Reservoir Co., and will use them in order to obtain a new water supply. A $78,000 bond issue has been disposed of, and it is proposed to issue additional bonds. L. R. Johnson is Mayor; Eugene Wilder is Cy. Clk.

DENVER, COLO.—Plans and specifications may be seen at office of Engineering News, 220 Broadway, New York, for construction of about 50 miles of main canal for irrigation of lands in North Platte Valley. Bids are asked by the U. S. Reclamation Service until 2 p. m., Nov. 8, as advertised in Engineering News.

OLYMPIA, WASH.—We are informed that Olympia Water Co. will make extensive improvements to its works under its own management. H. C. Heermans, of Corning, N. Y., has purchased control of the company and is its President. He is the official in charge.

SPOKANE, WASH.—Board Public Works has awarded contract for pumps and pumping machinery for new pumping station to CHARLES C. MOORE & CO., San Francisco, Cal., for $19,029. Contract for two improved turbine water wheels was let to GLOBE IRON WORKS, for $9,800.

SEATTLE, WASH.—Council has passed ordinances for the laying of water mains involving the expenditure of $59,180. R. H. Thomson is Cy. Engr.

PORTLAND, ORE.—Bids were opened Oct. 11 by the Water Board, D. D. Clark, Engr., for furnishing cast iron pipe and specials, the contract being awarded to the OREGON IRON & STEEL CO., Portland, Ore., for $21,-183. Bids were also received for laying cast iron pipe, the contract for this being let to PAQUET, GIEBISCH & JOPLIN, Portland, Ore., at a total of $34,535. See under Contract Prices.

CORVALLIS, ORE.—Contract for gravity water system for this place have been let as follows: Constructing pipe line, 14 miles long, H. MITCHELL, Seattle, Wash., $11,-014; supplying pipe, WASHINGTON PIPE & FOUNDRY CO., Tacoma, Wash., $28,133; steel pipe, CRANE & CO., Pittsburg, Pa.

BLACK DIAMOND, CAL.—A local press report states that W. P. Rigney has filed a claim for 75,000 ins. of water of Old River, for the purpose of furnishing water to Byron, Brentwood, Livermore, Pleasanton, Oakland and a number of other places.

ANAHEIM, CAL.—We are advised that an election will be held Nov. 11 to vote $6,900 of bonds for improving city water-works. C. A. Copeland, Los Angeles, Cal., is Engr.; C. O. Rust, Pres. Council.

RED BLUFF, CAL.—W. F. Luning, County Surv., has been appointed appraiser in behalf of town to set a value on plant of Antelope Creek & Red Bluff Water Co., which town proposes to purchase. F. W. Decker is Cy. Clk.

SALINAS, CAL.—Carmel Water Co., capitalized at $200,000, has been incorporated by H. W. Sabin. Carl Stevens, of Carmel-by-the-Sea and C. T. Ryland, of San Francisco; place of business, Salinas.

LEHI, UTAH.—Preliminary surveys have been made by Ray Wentz, County Surv., for proposed pumping plant of Lehi Irrigation Co. Est. cost of project is $50,000.

PORT ARTHUR, ONT.—The city has voted to spend $112,000 for the extension of its water-works.

WINNIPEG, MANITOBA.—Bids will be received until Nov. 6 for a steel caisson 15 ft. diameter and 43 ft. deep for a new well for the additional water supply. H. H. Ruttan is City Engineer. J. C. Gibson, Chairman of the Fire, Water & Light Committee. Three additional artesian wells are being sunk and the city has authorized a fourth to cost $50,000. A large covered reservoir is under construction, and it is hoped to have it completed before winter. Pipes are being laid for a high pressure fire protection system, taking water from the Red River; there will be about three miles of distribution mains.

STRATHCONA, ALBERTA. — The city council has decided to offer for sale $80,000 of water-works debenture bonds; payable in 20 years, 4½% interest.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids are asked by James Donovan, Supt. Sts., City Hall, until noon, Oct. 27, for building Talbot Ave. high level sewer, Sec. 6, in Merton St.

MARION, MASS.—Selectmen have been petitioned to call special town meeting to adopt sewer system after plans prepared by Freeman C. Coffin, 53 State St., Boston, Mass.

SALEM, MASS.—Board of Health has recommended construction of sewers in the Gallows Hill District and in the Castle Hill settlement.

WEST HARTFORD, CONN.—We are advised that this town will probably construct the Center District sewer system next spring. The work will involve the construction of a trunk sewer, 2½ miles long, with several miles of laterals, all on the separate system. Algernon B. Alderson is Town Engr.

HARTFORD, CONN.—Contract for constructing Windsor St. sewer system has been awarded to CHAS. H. SLOCOMB, for $6,372.

BUFFALO, N. Y.—Bids are asked by Department Public Works, F. G. Ward, Comr., until 11 a. m., Nov. 1, for the construction of the following sewers: An 18, 15 and 12-in. tile sewer in Dunstone Ave.; a 24-in. brick, 20 and 10-in. tile sewer in Argus and Zinns Ave. and Teutsch St.; 15, 12 and 10-in. tile sewer in Theodore St.; 15, 12 and 10-in. tile sewer in Zelmer St.; 18 and 15-in. tile sewer in Robert St.; 12-in. tile sewer in Sears St.; 12-in. tile sewer in Margaret St.

BUFFALO, N. Y.—F. G. Ward, Comr. Pub. Wks., has been instructed to prepare plans, etc., and to call for bids for the following sewers: 12-in. tile sewer in Margaret St., 15-in. and 18-in. tile sewer in Robert St., 12-in. tile sewer in Sears St., 15-in., 18-in. and 20-in. tile sewer in Perry St.

SYRACUSE, N. Y.—Frank J. Schnauber, Cy. Engr., has submitted estimates to Council calling for construction of pipe sewers at a cost of $8,500.

WATERTOWN, N. Y.—Board Public Works is stated to have rejected bids for construction of storm water sewer in Franklin St. and proposes to do the work itself. Lowest bid Oct. 13 amounted to $2,601.

CAPE MAY, N. J.—Bids were received Oct. 16 by this city, DeWitt D. Barlow, Cy. Engr., for constructing cast-iron pipe sewers. M. J. Hogan & Co., Real Estate Trust Bldg., Philadelphia, Pa., at $59,939 was low bidder and will be awarded contract. Itemized bids are given under Contract Prices.

ELIZABETH, N. J.—Council Committee on river improvement, John S. Sauer, Chn., has reported to Council in favor of instructing W. H. Luster, Jr., Cy Surv., to estimate the costs of the several plans for cleansing the Elizabeth River. Three plans are to be estimated on, as follows: Collingwood plan, an intercepting sewer in Elizabeth Ave.; modification of the Collingwood plan, calling for intercepting sewer in Pearl St.; cleansing river bed and dredging same.

PLAINFIELD, N. J.—Contract for constructing 2,410 ft. of vitrified terra-cotta pipe sewer in West End Ave., North Plainfield, has been let to Frank Mobus for about $1,962.

JERSEY CITY, N. J.—Bids were opened Oct. 23 by the Street and Water Commissioners, Geo. T. Bouton, Clk., for constructing sewers, contracts being awarded as follows: Main outlet sewer in Pamrapo Ave., HENRY BYRNE, 169 Summit Ave., Jersey City, at 99% of engineer's estimate, work including about 300 lin. ft. 72-in., 382 ft. 66-in., 338 ft. 63-in., and 580 ft. 57-in. steel pipe sewer; Collard St. sewer, CHAS. ORMSBY, 314 Hudson Boulevard, Jersey City, 95% of engineer's estimate, work including about 1,130 ft. 30-in. oval brick sewer, 470 ft. 24-in. brick circular sewer, and 1,076 ft. 18-in. vitrified pipe sewer. For the construction of the Van Winkle Ave. sewer all formal bids exceeded the 100% standard of cost, and were rejected. The contract will be readvertised. The work includes about 667 lin. ft. of 48-in. brick cir. sewer, 1,555 lin. ft. of 60-in. brick cir. sewer, 820 lin. ft. of 84-in., 3 rings, brick cir. sewer, 100 lin. ft. of 84-in. steel pipe sewer, and 200 cu. yds. of rock excavation.

WYNNEWOOD, PA.—Pugh & Hubbard, Engrs., Real Estate Trust Bldg., Philadelphia, Pa., have prepared plans for a sewage disposal plant at this place for the Wynnewood Manor Co.

CARLISLE, PA.—Construction of sewer system for this place is under discussion.

NORRISTOWN, PA.—Bids were opened Oct. 10 by Wm. J. Wells, Chn. Sewer Com., for construction of sanitary sewers and laterals, contracts being awarded as follows: JOHN T. DYER, Norristown, Arch St. sewer, $6,168; Green St. sewer, $826; Marshall St. sewer, $1,937; Oak St., $943, Penn St., $1,-188; Stanbridge St., $704; West Lafayette St., $9,270; West Main St., $2,469; West Airy St., $586. E. L. SEEDS, Germantown, Pa., DeKalb St., $1,673; Elm St., $1,673; Powell St., $7,384; Spruce St., $1,005; Cherry St., $827; Norris St., $735; Barbadoes St., $1,015; Penn St., $343; Markley St., $32,316; West Marshall St., $5,439; Marshall St., $1,560; West Airy St., $3,526; Astor St. $4,105. S. Cameron Corson is Borough Engr.

WILLIAMSPORT, PA.—The bids received Oct. 12 by the Highway and Sewer Committee for constructing storm water sewer in Park Ave. are given under Contract Prices.

WASHINGTON, D. C.—Martin McNamara, Washington, was low bidder Oct. 20 for constructing terra cotta pipe sewers, catch basins, etc., in Washington approach to highway bridge over Potomac River. Bid amounted to about $3,000.

PARKERSBURG, W. VA.—Bids were opened Oct. 11 by Board of Affairs, Jno. V. Dunbar, Cy. Engr., for constructing brick sewer in 13th St., the contract being awarded to JNO. W. CURRY, 1336 Latrobe St., for $15,173.

CARTHAGE, N. C.—Sewers and water-works are to be installed here, according to reports.

ROCK HILL, S. C.—We are advised that matter of sewerage for this place is being agitated; nothing definite has been decided. Jno. T. Roberts is Mayor.

MOULTRIE, GA.—H. S. Jaudon, Engr., Elberton, Ga., has reported to Council on proposed sewer system. According to the surveys, about 46,190 ft. of lateral and trunk sewers will be constructed. Est. cost of work is $19,560.

WOODLAWN, ALA.—We are advised that a preliminary survey is now being made for a sewer system. The contract will be let in about four months. W. E. Ferryman is Mayor.

BATON ROUGE, LA.—Bids are asked by Board Public Works until noon, Nov. 30, for constructing a separate system of sewerage. Work comprises about five or six miles of 8-in. to 18-in. pipe sewers, with all necessary appurtenances. B. Swart, Cy. Engr.

COVINGTON, KY.—We are informed that 1,290 lin. ft. of Willow Run concrete sewer, 7 ft. × 9 ft., is now under construction. A $40,000 bond issue will be voted on in November for the completion of the sewer. If bond issue is defeated, as is likely, the work will probably be done during 1906 and 1907 and paid for out of the revenues. W. E. Gunn is Cy. Engr.

COVINGTON, TENN.—We are informed that matter of constructing sewer at est. cost of $20,000 is now with committee. Bond election will have to be held before anything can be done. It is proposed to have outlet of sewer about one mile north of center of town, emptying into Town Creek. The latter will be straightened and dredged at an est. cost of $3,000. No surveys have been made, nor has engineer been employed. Sherod Smith is Mayor.

LEXINGTON, TENN.—Town is stated to have voted $20,000 of bonds for sewer system.

AKRON, O.—Following bids were opened Oct. 12 by Board Public Works for constructing South Akron main sanitary sewer: Hallinan Bros., $31,114; E. McShaffrey & Son, $31,7[illegible]; McAllonan Bros., $32,047; S. W. Parshall, $34,632; M. H. O'Toole, $40,-251; Matthew McCourt, $32,463.

ELYRIA, O.—Council has authorized construction of trunk sewer in sewer district No. 1.

GLENDALE, O.—Bids are asked by John G. Gutting, Village Clk., until noon, Nov. 6, for construction of 2,133 ft. of pipe sewer in Oak Ave. and 1,600 ft. of sewer in Sharon Ave.

NORWALK, O.—Council has passed ordinance declaring the necessity of obtaining a complete sewerage and sewage disposal plans for the city. C. W. Anderson is Mayor. It is stated that T. P. Kellogg, Clk. Bd. Pub. Service, will open bids Nov. 13 from engineers for furnishing full detailed maps, plans and specifications for a complete system of sewerage and sewage disposal for the city.

GOSHEN, IND.—Bids are asked by Benjamin C. Bender, Cy. Clk., until 7.30 p. m., Oct. 30, for construction of North Fifth and Crescent St. sewer.

PORTLAND, IND.—Council has passed ordinance providing for construction of a large trunk sewer, to run along the east side of the city.

GRAND RAPIDS, MICH.—Council has ordered the construction of sanitary sewer system for the south end of the city. System will drain 11th and 12th Wards and will cost $85,000. L. W. Anderson is Cy. Engr.

JACKSON, MICH.—Board Public Works has awarded contract for constructing Monkey Run sewer to E. J. TOBIN & CO., Jackson, for $7,410. Bids were also opened Oct. 12 for constructing purification plant, and intercepting sewer, the bidders for the first piece of work being as follows: Savage Construction Co., Chicago, Ill., $29,113; E. J. Tobin & Co., $29,961. For the intercepting sewer, Groves & Ross, Ann Arbor, Mich., and E. J. Tobin & Co., were the only bidders, the first mentioned firm being reported as the lowest.

HAMTRAMCK, MICH.—Informal election was held Oct. 21 to decide as to laying a two or three trunk sewer system in the village. Post-office is Detroit, Mich.

MUSKEGON, MICH.—Council has passed a resolution on the construction of a large number of sewers.

EAST ST. LOUIS, ILL.—Plans and specifications for proposed outlet sewer, for building which an ordinance appropriating $758,-000 has been before the Council, will be ready about Jan. 15. We are also advised that contract for constructing 1,310 ft. of sewer in Ninth St. and 1,810 ft. of sewer in St. Clair Ave. will be let about Nov. 9. W. J. Crocken is Cy. Engr.

MILWAUKEE, WIS.—Board Public Works has awarded contract for building Sec. 3 of 30th St. intercepting sewer to CHARLES FORRESTAL, 235 15th St., Milwaukee, for $20,025.

WASHINGTON, IA.—Council has decided to extend trunk sewer for 3,000 ft. Est. cost is $10,000.

MOORHEAD, MINN. — We are informed that contract was not let Oct. 16 for constructing main outfall sewer. The work was readvertised, bids to be opened Oct. 27. H. E. Robertson is Cy. Clk.

McCOOK, NEB.—McCook Commercial Club is advocating a bond issue for constructing sewer system.

ABERDEEN, S. DAK.—Bids are asked by F. W. Raymond, Cy. Audr., until 8 p. m., Nov. 10, for extending sewer system to Walnut and First Sts.

NORTH YAKIMA, WASH.—Plans and specifications for the construction of sewer system for this place may be seen at office of Engineering News, 220 Broadway, New York. Bids are asked until Nov. 6, as is stated in our advertising columns.

BOISE CITY, IDAHO.—Bids are asked until noon, Nov. 9, for building about 26,337 lin. ft. 8-in. vitrified pipe sewers, not including Y's; 1,600 lin. ft. 10-in. vitrified pipe sewers, not including Y's; 107 manholes; one flush line. J. A. Beal, Cy. Clk. (Advertised, Engineering News.)

PORT ARTHUR, ONTARIO.—The city has voted to spend $112,000 for the extension of its sewer system.

ST. CHARLES, MO.—Burns & McDonnell, Engrs., Dwight Bldg., Kansas City, Mo., have prepared plans and estimates for a sewer system for this city. Est. cost is $14,497.

ST. LOUIS, MO.—Board Public Improvements has approved an ordinance providing for a 925-ft. extension of the Gimlin sewer in Baden. The ordinance carries an appropriation of $15,000.

HOUSTON, TEX.—Westmoreland Improvement Co., capitalized at $5,000, has been chartered to construct and maintain a sewerage system in Westmoreland addition, Houston. W. C. Connor, Jr., William Masterson, M. E. Fowler and W. W. Fordtran are interested.

SEATTLE, WASH.—Council has passed ordinances calling for the construction of five sewers at an est. cost of $24,650. R. H. Thomson is Cy. Engr.

SAN FRANCISCO, CAL.—We are advised that plans have been prepared and bids will soon be called for sewers in Baker St.; from Union St. to the Bay, est. cost, $55,000, and in California St., from 24th Ave. to 31st Ave., est. cost, $25,000. Contracts have been let and work is now under way for $165,000 worth of sewers under the bond issue. Plans are nearly completed for $300,000 worth of additional sewers. Thos. P. Woodward is Cy. Engr.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids were received on Oct. 20 (readvertisement), for removing snow and ice for Borough of Brooklyn, as follows: Wm. Bradley, 154 East 24th St., New York, 18c. a cu. yd.; Charles Hart, 27c.; Donlon Contracting Co., 21 5-16c.; McDermott & Toxton, 28c.; O'Grady Bros., 23c.; Hill & Hayes, 23c.; Norton & Gorman Contracting Co., 22c.; Bracken, McAveney Co., 20 3-8c.; Newman Contracting Co., 1127 Willoughby Ave., 19 9-10c. All are Brooklyn firms.

Bids are asked until Oct. 30, noon, by John McG. Woodbury, Comr. of Street Cleaning, for furnishing material and constructing a second floor in the rubbish incinerator at Delancy Slip, Borough of Manhattan.

JERSEY CITY, N. J.—George M. McCarthy, Comr. Board of Health, is said to be interested in plan to secure a garbage disposal plant for this city.

PERTH AMBOY, N. J.—The Board of Health is reported to be at work on plan for constructing a garbage crematory.

CHICAGO, ILL.—Council has delegated J. M. Patterson, Comr. of Public Works, Wm. S. Hard and Richard T. Fox, Supt. of Street and Alley Cleaning, to visit Eastern cities to secure information on garbage disposal.

GRAND RAPIDS, MICH.—John M. Root, Gen. Mgr. of the De Carie Mfg. Co., Minneapolis, Minn., has submitted proposition to municipal garbage commission to replace present city plant with steam producing plant for about $30,000.

DETROIT, MICH.—Board of Estimate has under consideration the question of issuing $100,000 of bonds for installation of a municipal garbage disposal plant.

MILWAUKEE, WIS.—City desires information on the subject of city garbage disposal, it is reported. F. M. Schulz is Health Comr.

DAVENPORT, IA.—We are informed that matter of city garbage crematory is in a tentative stage at present and that no plans, specifications, etc. have been prepared. Edward Collins is Cy. Clk.

ST. LOUIS, MO.—Plans and specifications for a municipal garbage incinerating plant have been approved by Board of Public Improvements. An appropriation will be made. A. J. Reilly is Pres. Bd.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

DRACUT, MASS.—Bids were opened on Oct. 18 by State Highway Commission for constructing highway at Dracut and the contract awarded to W. L. CAMARCO, of Lee, Mass., for $5,281.

SYRACUSE, N. Y.—City Engineer Schnauber has submitted estimate for grading Garfield Ave., at $2,500.

JERSEY CITY, N. J.—Bids were opened by Board of Street and Water Commissioners on Oct 23 for the improvement of Bergen Ave., by repaving with asphalt, and the contract, we are informed, was awarded to the BARBER ASPHALT PAVING CO., of Newark.

HARRISON, N. J.—Bids will be received at November meeting of Commissioners on Streets and Highways of Common Council for paving Hamilton St., requiring about 7,600 sq. yds. telford pavement, 2,200 sq. yds. second-hand trap rock furnished by town, 3,200 lin. ft. new curb, 1,000 lin. ft. old curb reset, etc. B. P. Walsh, Town Clk.

PERTH AMBOY, N. J.—Bids are asked by City Council until 8.30 p. m., Nov. 6, for paving Rector St., from Market to Smith Sts., with 12-in telford macadam pavement and 2 ft. of Belgian block gutter stone on each side. Wm. Fullerton, St. Comr.

CAPE MAY C. H., N. J.—Anthony B. Smith, Dir., writes us in regard to driveway to Sea Island City (mentioned Oct. 12), that bids will not be asked for until spring, as there is no available state appropriation.

PATERSON, N. J.—A resolution has been introduced in the Board of Aldermen providing for the repair of city streets this fall. H. J. Harder is Cy. Engr.

GREENSBURG, PA.—Bids are asked by Town Council until Nov. 6 for grading, curbing and paving with vitrified brick on a portion of Tremont Ave. Edwin A. Cramer, Boro. Clk.

HARRISBURG, PA.—This city will vote Nov. 7, on the issuance of $100,000 of bonds for street improvements. M. B. Cowden is Cy. Engr.

WILKESBARRE, PA.—Plans will be presented to Luzerne County grand jury next month for a proposed county road, extending from Nescopeck Borough, and one to run between Hillside and Huntsville, in Jackson Township. The latter road is to be two miles long.

FREDERICK, MD.—An ordinance providing for the macadamizing and curbing of West Third St., extended, has been passed by Board of Aldermen and Mayor. Plans and specifications, as prepared by City Engineer Coblentz, were also approved.

WASHINGTON, D. C.—The Engineer Department of District Government has prepared its schedule for street improvement in the District for the ensuing year, as follows: Northwest Section—Pave E St., between 17th and 18th Sts., $5,100; T St., 18th St. to Florida Ave., $5,000; 23d St., F to G St., $3,750. Northeast Section—Pave 12th St., B to C, $4,500; B St., 11th to 13th, $11,100; G St., Maryland Ave. to Ninth, $16,000; E St., Seventh to Maryland Ave., $7,000; Florida Ave., Fifth to Seventh, $[illegible],000. Southeast Section—Pave M St., South Capitol to First, $8,000; 11th St., G to I, $5,000; Virginia Ave., Second to Fifth, $16,200; Tenth St., I to L, $6,000; Ninth St., E to K, $15,800; Ninth St., K to N, $15,600; Massachusetts Ave., 12th to 14th, $8,000; South Carolina Ave., 14th to 15th, $9,000. Southwest Section—Pave Canal St. (north side), B to D, $6,900; South Capitol St., C to E, $13,500; Eighth St., H to Water, $6,800; K St., Four-and-a-half to Sixth, $6,500. Georgetown Section—Pave 31st St., K to Canal, $5,400.

RALEIGH, N. C.—The Glenwood Land Co. will let contract for laying a considerable quantity of curbing and paving. Albert L. Murray is Mgr.

ATLANTA, GA.—Mayor Woodward has vetoed resolution passed by Council in reference to the paving of Park.

LIVE OAK, FLA.—City will vote Nov. 21 on the issuance of $75,000 of bonds for street paving. M. E. Broome is Mayor.

WOODLAWN, ALA.—W. E. Perryman, Mayor, writes us that the city has recently let paving contract to cost about $5,000. The Mayor further states that about $25,000 will be expended next year for paving.

GULFPORT, MISS.—The city will issue $25,000 in bonds for street paving.

NEW ORLEANS, LA.—Bids are asked by Bureau of Yards and Docks, U. S. N., Washington, D. C., until 1 a. m., Nov. 25, for surbing and sidewalks at naval station, New Orleans. Mordecai Endicott, Ch. of Bureau.

BATON ROUGE, LA.—Bids will be received by Board Public Works until Nov. 30 for paving portions of several streets. Approximate quantities: 53,941 sq. yds. paving and 30,835 lin. ft. combined curb and gutters. R. Swart, Cy. Engr.

NORWOOD, O.—Bids are asked by Board Public Service, J. E. Thorpe, Clk., until Nov. 4 for grading, curbing, macadamizing and graveling portions of Norwood and Section Aves. J. A. Stewart, Cy. Engr., 813 Traction Bldg., Cincinnati.

ASHLAND, O.—We are informed that the contract for paving Sandusky St. with brick has been let to PHILLIPS & ARNOLD, of Ashland, for $9,982. Bids were opened by Village Council on Oct. 17. F. L. Niederheiser, Engr.

TOLEDO, O.—Nineteenth St., from Madison Ave. to Monroe St., will be paved with sheet asphalt. The Board Public Service have awarded the contract for this work to the BARBER ASPHALT PAVING CO. Cost, about $7,844.

FINDLAY, O.—C. B. HALL & SON have been awarded the contract to pave Liberty St., at their bid of $3,711.

BLOOMFIELD, IND.—Bids are asked by County Commissioners until Nov. 7 for constructing about two miles of gravel roads.

INDIANAPOLIS, IND.—The Board Public Works has adopted resolutions for cement walks on Windell St., from 21st to Mariette Drive. M. A. Downing, Pres.

FRANKLIN, IND.—Bids are asked by Arthur R. Owens, Cy. Clk., until 7.30 p. m., Oct. 31, for cement sidewalk improvement on west side of South Horne Ave., from Jefferson to Wayne St. Otis B Sellers, Cy. Engr.

SALEM, IND.—Bids are asked by County Commissioners until Nov. 6 for construction of 11,057 ft. of gravel roads in Gibson Township; est. cost, $3,388. Frank E. Morris, County Audr.

EVANSVILLE, IND.—The Board Public Works will soon ask for bids for paving of alley between Franklin and Illinois Sts. with brick. W. E. Clark is Cy. Clk.

EVANSVILLE, IND.—The Board Public Works is asking for bids for the construction of cement sidewalks in Linwood Ave. and River Ave., according to plans and specifications on file with City Clerk.

VINCENNES, IND.—Bids will soon be asked by County Commissioners to construct a gravel or macadam road in Vincennes Township. Jno. T. Scott is County Audr.

FLINT, MICH.—City Council has taken steps preparatory to paving of Detroit St., from Second Ave. to 12th Ave., although it is not intended to begin work until next spring.

BIG RAPIDS, MICH.—We are informed that this city is in the market for steam roller. L. W. June, Cy. Engr.

BENTON HARBOR, MICH.—Main St. is to be paved. The contract will be let in two sections, one to be paved with macadam, the other with cinders and brick.

DECATUR, ILL.—We are advised that the contracts for paving Decatur St., 4,277 sq. yds., and South Haworth Ave., 2,142 sq. yds., with brick, has been let to S. A. TUTTLE & CO., of Decatur, for $7,336 and $4,138, respectively. A. B. Alexander, Cy. Engr.

PEORIA, ILL.—Petitions have been filed in County Court by City Attorney Moore for the paving of Linn St., from the end of present pavement to city limits, a distance of 1,300 ft. Also for the paving of Easton Ave., one block from Adams to Hayes St.

CENTRALIA, ILL.—Bids will be received by the city until Oct. 31 for the following work: 33,688 cu. yds. excavation; 766 cu. yds. fill; 50,139 lin. ft. stone curb, 2,585 lin. ft. oak headers; 2,549 lin. ft. stone headers; 94,631 sq. yds. brick paving. Iowa Engineering Co., Engr., Clinton, Ia.

MATTOON, ILL.—Bids will be received about Dec. 1 for paving Decatur St. with brick. Est. cost, $7,056. Claude L. James is Cy. Engr.

GREEN BAY, WIS.—We are informed that the following bids were received Oct. 20 for about 8,327 sq. yds. of macadam pavement: La Crosse (Wis.) Stone Co., $4,580; J. K. Delaney, Green Bay, $3,422. W. W. Read, Cy. Engr.

DES MOINES, IA.—Bids are asked by Board Public Works until 11 a. m., Oct. 31, for paving with vitrified brick the alley in Block No. 18, about 600 sq. yds. John W. Budd, Cy. Engr.

ST. PAUL, MINN.—E. E. Rundlett, Cy. Engr., has estimated the cost of macadamizing South Wabasha and Winifred Sts., from Congress to Ohio St., at $11,358.

ST. PAUL, MINN.—The Assembly has awarded the contract for curbing, leveling and filling Winifred St., from Concord to Brown, at $5,456.

ST. PAUL, MINN.—The County Commissioners have given out that they will spend $90,000 for good roads throughout the country in 1906.

PIPESTONE, MINN.—Sealed proposals will be received by Willard S Campbell, Supt. U. S. Indian School, until 2 p. m., Nov. 3, for construction of 500 sq. yds. of cement sidewalk.

BUTTE, MONT.—An ordinance has been adopted by City Council providing for the extension of Academy St. F. C. Bickenbach, Cy. Engr.

JEFFERSON CITY, MO.—An election will be held Nov. 11 to vote on the question of issuing $200,000 of bonds for road improvements in this (Cole) county.

HANNIBAL, MO.—Bids are asked by S. A. Birch, Cy. Clk., until Nov. 6 for constructing concrete or granitoid walks, 36 lots, more or less, on Palmyra Ave. Plans and specifications at office of City Engineer.

LITTLE ROCK, ARK.—Extensive street improvements are contemplated by the city in the paving of Tenth St., from City Park to Battery St., a distance of 20 blocks. Jos. Saxton is a member of board of commissioners which will let the contract. R. O. Danenhower is Cy. Engr.

EL PASO, TEX.—It is stated that bids for paving streets in District No. 1 will be opened at city hall on Nov. 1.

SEATTLE, WASH.—The City Council, at its session held Oct. 16 passed ordinance providing for the improvement of a number of streets by paving, grading and laying concrete walks. Est. cost, $121,430. R. H. Thompson, Cy. Engr.

LOS ANGELES, CAL.—All bids for the $10,000 contract for street improvements were rejected by City Council and new bids will be advertised for immediately.

SAN FRANCISCO, CAL.—The Board Public Works has asked for $40,000 to improve Mission St., between Fifth and Ninth Sts. Thos. P. Woodward is Cy. Engr.

BISBEE, ARIZ.—Bids are asked by C. W. Hicks, Cy. Clk., until Nov. 7 for constructing about 3,600 sq. yds. of vitrified brick pavement on portions of Main St. and Brewery Ave.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Fire destroyed the iron foundry of R. Estabrook's Sons, carriage works of W. P. Stone and a number of stables, in South Boston. Loss, $60,000.

WATERVILLE, CONN.—The American Pin Co. will build a large addition to its factory at Waterville. Brick, mill construction, 3 stories, 75 x 300 ft. A new engine about 200 HP. and a 150 KW. generator with two 100 HP. boilers will be required.

TOMPKINSVILLE, N. Y.—Bids are asked by Lt.-Col. Wm. T. Ross, [illegible] S. Engr., until 1 p. m., Nov. 15, for furnishing materials and labor for removing old oil-house into a blacksmith [illegible] Light House Depot, Tompkinsville, N. Y. (Advertised, Engineering News.)

BINGHAMTON, N. Y.—The [illegible] & S. Supply Co. will break ground [illegible] large four-story brick factory building [illegible] Charlotte St., for the manufacture of [illegible] toilet articles, etc. Address Henry [illegible], care of the Great Fair.

P. B. Canfield will build an addition to his factory for the manufacture [illegible] gasoline engines.

ROCHESTER, N. Y.—Barnard Bros. Co. will build manufacturing plant [illegible] Railroad Ave., for the manufacture [illegible] sash and blinds. Brick, 2 stories, 131 [illegible] ft. Cost, $30,000.

SCHENECTADY, N. Y.—The [illegible] for which JOS. DUNFEE, of [illegible] was taken a $265,000 contract to [illegible] will be of brick and steel with slag roof. Work will be begun as soon as excavation is finished. The brewery is for the Mohawk Valley Brewing Co. and will have a capacity of 75,000 barrels annually. Materials will be purchased shortly.

NEWARK, N. J.—Pigott & Mathesius, Archs., 188 Market St., Newark, have plans in progress for factory to be erected at Oliver St., Newark. Brick, 3 stories, 40 x 60 ft.

PLAINFIELD, N. J.—The Knox Machine Works, of Jersey City, will erect a plant here. S. Arthur Krom, of Plainfield, is Pres.

NEWARK, N. J.—C. COOPER & CO., 45 Clinton St., has been awarded contract for mason work and R. ROBINSON the carpenter work, for new factory to be erected on Summer Ave., for Martin Dennis, 458 Market St. J. J. Capen, Arch., 45 Clinton St. Equipment will be considered later.

PHILADELPHIA, PA.—Ballinger & Perrot, Archs., 1200 Chestnut St., have plans ready for bids for an addition to factory building at Sepviva and Boston Aves., for A. Schoenhur Co.

YORK, PA.—The Lafean Paper Co. has made arrangements to enlarge its plant on West College St.

WILKESBARRE, PA. — The Stegmaier Brewing Co. intends erecting a large addition to its brewery on East Market St.

YORK, PA.—The S. Morgan Smith Co. will have plans prepared for large addition to its factory. New equipment required.

HOLLIDAYSBURG, PA. — The Bernard White Coal Mining Co., Betz Bldg., Philadelphia, is having plans prepared for steel car repair shop here. Complete power plant required.

BALTIMORE, MD.—The Sun Oil Co. will erect a brick and stone factory building 70 x 200 ft. on Haines St. J. Ellis, Mgr., 234 Hughes St.

SYKESVILLE, MD.—Ed. McKnight, P. O. Box 124, is considering the erection of a mill to grind feldspar, flint and mica near here and desires catalogues, etc., of firms that manufacture necessary machinery, etc.

BALTIMORE, MD.—The Baltimore Vitrified Clay Co. has decided to enlarge its plant by adding to it machinery which represents an outlay of about $150,000. It will have a capacity of 75,000 bricks a day and the company expects to furnish employment to some 200 or 300 additional hands. The officers of the company are: C. C. Bartgis, Pres.; H. F. Carter, Secy.; M. H. Carter, Treas.; and Chas. J. Taylor, Wm. L. Wise, M. H. Carter, C. C. Bartgis, Moses Pels, Horace Slingluff, Frank Taylor, and J. Kemp Bartlett, directors.

BRISTOL, VA.—It is stated that the Peters-Goodwyn Coal & Ice Co., of Bristol, Tenn., will erect an ice factory here, to cost $50,000.

NORFOLK, VA.—The Glamorgan Pipe & Foundry Co., of Lynchburg, will establish a branch plant here at a cost approximately $500,000.

HIGH POINT, N. C.—Stehli & Co., 103 Green St., New York City, will build an addition to their silk mill at High Point. Brick, mill construction, 60 x 200 ft., 3 stories, and include power house with the following equipment: 1 225-HP. engine; 1 150-KW. generator; 40 2-HP. motors; 20 3-HP. motors; 1 electric elevator.

HIGH PONT, N. C.—The Eagle Furniture Co. will rebuild its furniture factory burned recently.

LA GRANGE, GA.—J. Lane & Co., 100 Worth St., New York City, will erect at La Grange, a new mill to cost about $500,000. Brick and steel, approximately 80 x 600 ft., 70 x 300 ft., and 60 x 200 ft., all 2 stories; power house, 70 x 70 ft.

ACWORTH, GA.—The Acworth cotton mill buildings are nearing completion, but the contracts for machinery have not yet been placed. Address Orlando F. Awtrey, Pres.

CARTERSVILLE, GA.—The Harvey Lumber Co. has leased from the Etowah Development Co. the timber privileges on about 10,000 acres of land east of Cartersville and will put in two or three saw mills at once, with a cutting capacity of 200,000 to 300,000 ft. per month. Henry Harvey, of Rome, Ga., will be general manager and A. F. Quinn of Etowah will be associated with Mr. Harvey. They will remove to Cartersville. The company will saw lumber on a large scale and also operate dry kilns, planing mills and other departments of the lumber business. Lath mills and shingle mills will probably be added later.

CANNON, GA.—J. A. Duncan is in the market for machinery for ice factory.

SYLACAUGA, ALA.—M. E. Conway is considering the establishment of a steam laundry.

COVINGTON, LA.—The Covington Ice & Cold Storage Co., capital $30,000 has been organized with H. B. Daboval of New Orleans as president. The company will im-

READERS' WANTS Our readers, and others, who are in the market for supplies, machinery, etc., or to award contracts for work, will nearly always find the names of the firms who handle the material they want by referring to our advertising pages. Our advertisers are constantly changing their cards, and for this reason we advise our readers to look over the paper from the front cover to the back cover so as to keep in touch with up-to-date contractor's material, methods, etc. **Mention Engineering News** when writing our advertisers. If, however, you do not find advertised just what you want please write us at once and we will notify the proper firms without delay, and **without charge.—Engineering News can help buyers.**

CONCRETE MIXER.—Harrisburg, Pa.—Chas. G. Nash, 605 Forster St., writes us that he wishes to buy a concrete mixer.

CLAY SEWER PIPE.—Cleveland, O.—H. J. Sheets, 1007 Schofield Bldg., writes us that he wants the names of makers of clay sewer pipe, 6 to 18 ins., located in Ohio.

HYDRAULIC LIFTS.—Mexico.—Wm. E. Beck & Co., 116 Broad St., New York, write us that they have an inquiry from a Mexican firm asking for names of makers of small hydraulic lifts.

IRON CASTINGS.—Youngstown, O.—W. C. Coryell, 343 Scott St., writes us that he wishes the names of makers of small, intricate iron castings. Mr. Coryell wishes to have a lot made to order.

CONTRACTORS' SUPPLIES.—Van Buren, Ind.—J. S. Worley, of the Riggs & Sherman Co., Engrs. for the M. B. & E. Traction Co., Toledo, O., writes us that catalogues from manufacturers of engineering and contractors' supplies are wanted, and it is requested that the same be addressed to the office at Van Buren, Ind.

AMERICAN PRODUCTS.—Turkey.—We are informed that Adolph Barbier, of Constantinople, Turkey, who is head of an importing company, 125 years old, wishes to be placed in correspondence with manufacturers of machinery, etc.

EXCAVATING MACHINERY.—Port Arthur, Ont., Canada.—Geo. E. Gibson, care Mariaggi Hotel, writes us that he wishes to be placed in correspondence with manufacturers of machines that will excavate a drainage ditch 5 ft. deep, 6 ft. wide at bottom and 26 ft. at top, 2 to 1 slope. The ditch runs through sand loam part of the way, but mostly through swamp land, which is very wet, with sand under top covering. The earth excavated to be thrown on side of ditch to form embankment for railway.

mediately begin the erection of a commodious brick building for the refrigerating and manufacturing part and iron sheds and side rooms for storage and other purposes.

ESTHERWOOD, LA.—John P. Hoyt Co. has been organized with J. P. Hoyt, Pres., and J. R. Hobbs, Secy.-Treas., to erect an ice plant of five to six tons capacity. About $3,000 will be invested.

CENTERVILLE, MISS.—The plant of the Red Snapper Ice Co. was destroyed by fire. The plant will be rebuilt at once.

SUMRALL, MISS.—The B. B. & W. Bottle Works, of Hattiesburg, will erect a plant here. J. F. Williams is Pres.

MT. PLEASANT, TENN.—The Mt. Pleasant Fertilizer Co. will build a factory here. W. E. Wheeler and others are interested.

JOHNSON CITY, TENN.—The Wood-Galloway Co., Jackett Wood, Pres., contemplates the erection of a planing mill and woodworking plant in the near future and will be in the market for full outfit of machinery for same.

HOPKINSVILLE, KY.—T. H. Callahan, of Chicago, Ill., is trying to interest local capital in the organization of a $50,000 company to erect a shoe factory.

LORAIN, O. — The National Tube Co., of McKeesport, Pa., is preparing plans for a bloom and ingot mold factory, to be built in Lorain, at a cost of $500,000.

YOUNGSTOWN, O. — Carroll Thornton, North Ave., is at the head of a company which will erect a factory on West Boardman St., for the manufacture of candles.

ELKHART, IND.—Frank J. Weiler and Frank N. Wickwire, of Elkhart, and J. M. Earle, of Cleveland, O., have incorporated the Elkhart Brewing & Ice Co., with $15,000 capital stock, to build a brewery and an ice plant here.

ANDERSON, IND. — The McBeth-Evans Glass Co. will receive bids for making extensive improvements and additions to its factory. Estimated cost, $30,000.

VINCENNES, IND.—Wm. Bolk, John Fries and others will soon ask for bids for the construction of an ice plant in this city. Estimated cost, $40,000.

WASHINGTON, IND.—The Ideal Furniture Mfg. Co. will soon ask for bids for the construction of a factory on the site of building recently destroyed by fire.

DETROIT, MICH.—The Detroit Steel Pulley Co., Bellevue and Warren Aves., has had plans prepared for factory building, 66 × 112 ft.

Leon Coquard, Arch., 169 First St., has plans ready for figures for a two-story and basement laundry for the Grand Laundry, H. S. Malcomson, Secy., 196 Randolph St. Cost, $40,000.

GRANDLEDGE, MICH.—Osgood & Osgood, Archs., Grand Rapids, Mich., have completed plans for factory building for the Grandledge Chair Co., Grandledge. Brick, mill construction, 50 × 400 ft. Day work.

BUCHANAN, MICH.—Fire destroyed the plant of the Cabinet Co. and blacksmith shop of B. S. Fish. Loss, $30,000.

MARINETTE, WIS.—The Marinette & Menominee Paper Mills were nearly destroyed by fire. The plant was valued at $250,000 and was damaged to the extent of $100,000.

CARTERSVILE, MO.—The Miners' Foundry & Supply Co., recently incorporated with $30,000 capital stock, will build and equip foundry with a 10-ton cupola, crane and traveling trolley, ladle, etc.

ST. LOUIS, MO.—The William J. Lemp Brewing Co. will erect a five-story grain elevator at a cost of $50,000.

BEAUMONT, TEX.—The Aldridge Lumber Co., recently incorporated with $100,000 capital stock, will operate a saw and planing mill. A building 40 × 160 ft. will be erected and equipped for a daily capacity of 100,000 ft. C. C. Aldridge is Secy.

CHILOCCO, OKLA.—The following bids were opened Oct. 17 by the Commissioner of Indian Affairs for the construction of an ice plant at Chilocco, O. T., Indian Agency: Creamery Package Mfg. Co., 1142 West 16th St., Chicago, Ill., for wood tank, $4,508; steel tank, $4,548. United Iron Works, Springfield, Mo., iron or wood tank, $8,450; York (Pa.) Mfg. Co., steel tank, $5,775 as specified with vertical machine; $6,025 for horizontal machine and 300 lb. cans; $6,175 for vertical machine and 300 lb. cans.

PORTLAND, ORE.—The buildings and patterns and machinery of the Oregon Foundry Co. at East Alder and Ninth Sts., were destroyed by fire. The loss is estimated by Henry Hill, one of the proprietors, at $30,000.

SAN FRANCISCO, CAL.—A. G. Spalding & Bros., manufacturers of sporting goods, will erect a factory on Mission St. this fall. L. A. Wolfe is local representative.

MONTREAL, QUE.—The Dominion Bridge Co., of Montreal, is reported as having determined to build works at Winnipeg, on account of the large demand for bridge and structural work in the Northwest.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

FILLING AND GRADING.—New Orleans, La.—Following bids were received Oct. 14 by Bureau Yards and Docks, Washington, D. C., for filling and grading at Naval Station, New Orleans: Jahncke Navigation & Improvement Co., 816 Howard Ave., New Orleans, La., Item 1, $1 cu. yd.; John J. Keegan, 3907 Magazine St., New Orleans, La., Item 1, $0.62½ cu. yd.

*PIPE AND LAYING.—Portland, Ore.—Bids were opened Oct. 11 by the Water Board, D. D. Clark, Engr., for furnishing cast-iron pipe and specials and for constructing water mains. The contract for furnishing cast-iron pipe and specials was let to OREGON IRON & STEEL CO., Portland, Ore., at the following bid: 578 tons cast-iron pipe, $35.30 per net ton, f. o. b. Portland; 80,000 lbs. specials, $0.03 per lb.. This company also offered the same prices on an optional order, consisting of 3,616 tons cast-iron pipe and 140,000 lbs. specials. The contract for laying the cast-iron pipe under Proposal D was let to PAQUET, GIEBISCH & JOPLIN, Portland, Ore., at the following bid: 31,600 lin. ft. 24-in. cast-iron pipe, $0.55 per ft.; 2,000 lin. ft. 6-in. cast-iron pipe, $0.17; 50 cu. yds. concrete, $6 per yd.; two acres of clearing and grubbing, $50 per acre; 30,000 cu. yds. excavating and refilling, $0.35; total, $28,620. Contract for laying cast-iron pipe under Proposal E was also let to last named firm at the following bid: 5,400 lin. ft. 20-in. cast-iron pipe, $0.45; 2,500 lin. ft. 16-in. cast-iron pipe, $0.35; 10 cu. yds. concrete, $6; two acres clearing and grubbing, $50; 7,000 cu. yds. excavating and refilling, $0.35; total, $5,915. Bids were taken under Proposal A for furnishing (1) 2,230,000 lbs. steel plates and (2) 70,000 lbs. rivets, the following bids per 100 lbs., net, f. o. b. Portland, being received: Phoenix Iron Works, Portland, Ore., (1) $2.30, (2) $3.25; Geo. C. Strowe, Portland, Ore., (1) $2.35, (2) $3.15. In like manner bids were also taken under Proposal B, calling for the manufacturing and laying of steel riveted pipe, the plates, rivets and valves to be furnished by the Water Board. The total bids under this proposal were as follows: Paquet, Giebisch & Joplin, $72,119; Williamette Boiler Works, Portland, Ore., $80,714; Phoenix Iron Works, Portland, Ore., $81,958. Bids were likewise received under Proposal C, calling for furnishing materials and laying 24-in. steel pipe line. Proposals A, B and C being alternate bids. Under Proposal C the bids received were as follows: (1) Paquet, Giebisch & Joplin; (2) Schaw-Batcher Pipe Works, Sacramento, Cal.; (3) Risdon Iron & Locomotive Works, San Francisco, Cal.; (4) Harry Howard, Portland, Ore.; (5) Pacific Bridge Co., Portland, Ore.; (6) Robert Wakefield, Portland, Ore.:

*PIER WORK.—Grand Rapids, Mich.—Bids were opened Oct. 11 by Col. M. B. Adams, U. S. Engrs., for construction and repair of piers, improving harbor at Muskegon, Mich. The approximate quantities given in the table are the ones used to compute the total with the second item excluded. The approximate quantities used in computing total if first item is excluded were somewhat larger. The bids received were as follows; (1) Robert Love, Muskegon, Mich.; (2) Bennett-Schnorbach Co., Muskegon, Mich.; (3) Burke, Smith & Nelson, Muskegon, Mich.:

*DIKE WORK.—New York, N. Y.—Following bid offered by A. F. Chapman, 822 Prudential Bldg., Buffalo, N. Y., was opened Oct. 16 by Col. W. R. Livermore, U. S. Engrs., for constructing and repairing dikes in Hudson River, N. Y.; $100,000 is available: Round pine or spruce piles, per lin. ft driven, 17¼ cts.; sheet piling, per 1,000 ft. B. M., driven and sawed off, $50.25; round timber, per lin. ft. in place, 11 cts.; square timber at Troy, N. Y., per 1,000 ft. B. M., in place, $58; square timber below Troy, N. Y., per 1,000 ft., B. M., in place, $58; tie-rods and

Bids Received at Grand Rapids, Mich., October 11, 1905, by Col. M. B. Adams, U. S. Engineers, for Construction and Repair of Piers, Improving Harbor, at Muskegon, Mich.

Items.	Quantities.	(1)	(2)	(3)
To remove about 326 lin. ft. crib work in the north pier and restoring the cribs in their new position		$6,500	$7,000	$12,000
To remove 328 lin. ft. crib work in the north pier..		4,000	4,000	8,000
Dredging for crib foundation	7,159 cu. yds.	.20	.50	.60
Foundation piles for cribs	2,397 lin. ft.	.50	.60	.60
Oak piles	21 260 "	.27	.30	.32
Oak timber	23,772 ft., B.M.	50.00	52.00	60.00
Pine or Douglas fir timber	326,689 "	32.75	35.00	36.00
Pine or Douglas fir plank for sheet piles	463,320 "	38.75	44.00	54.00
Pine or Douglas fir plank for decking	32,207 "	28.50	33.00	32.00
Drift bolts	38,741 lbs.	.035	.03	.04
Screw bolts	14,957 "	.035	.035	.04
Carriage bolts	13,204 "	.035	.05	.04
Tie rods	20,669 "	.035	.035	.04
Spikes	1,811 "	.035	.035	.04
Stone filling	445 cords	6.25	6.80	7.00
Sand filling	1,000 cu. yds.	.25	.30	.30
Total, excluding second item		$51,787	$58,971	$70,762
Total, excluding first item		54,140	59,189	70,340

BUILDING BRICK.—Washington, D. C.—Following bids were opened Oct. 11 by Elliott Woods, Supt. of the Capitol, for 9,000,000 brick to be used for the construction of the new House and Senate Office buildings: Highland Brick Co., $7.97 per thousand, delivery 210,000 per week; Washington Brick & Terra Cotta Co., $8.60 per thousand, 210,000 per week; Potomac Brick Co., $8.63 per thousand, 210,000 per week, 3,000,000 bricks; Anacostia Brick Co., $8.65 per thousand, 100,000 per week, 3,000,000 bricks; Laurel City Products Co., $9.45 per thousand, 150,000 per week, 2,000,000 bricks; Standard Brick Co., $7.79 per thousand, 35,000 per day or 1,000,000 in month; Monticello Brick Works, $11.80 per thousand, 450,000 per week; Mack Manufacturing Co., $14.40 per thousand, delivery as needed.

DREDGING.—New York, N. Y.—Following bids per cu. yd., scow measurement, were opened Oct. 12 by Col. W. R. Livermore, U. S. Engrs., for dredging: (1) in Port Jefferson Harbor, N. Y., 20,000 cu. yds. can be dredged, (2) in Flushing Bay, N. Y., 32,000 cu. yds., (3) in Huntington Harbor, N. Y., 5,800 cu. yds.: International Contracting Co., 17 Battery Pl., New York, (1) 25 cts., (2) 25 cts.; Atlantic Dredging Co., 15 Whitehall St., New York, (1) 29 cts., (2) 29½ cts.; Seely-Taylor Co., 78 Broad St., New York, (1) 32 cts., (2) 35 cts., (3) 36 cts.; R. G. Packard Co., 130 Pearl St., New York, (1) 28 cts., (2) 43 cts. No bids were received for dredging in Canarsie Bay.

BIDS RECEIVED AT PORTLAND, ORE., OCTOBER 11, 1905, FOR FURNISHING MATERIALS AND LAYING 24-INCH STEEL RIVETED PIPE.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)
24-in. steel pipe	31,600 lin. ft.	$3.48	$3.37½	$3.50	$3.80	$4.08	$4.04
Manholes	65	34.00	20.00	16.50	20.00	20.00	20.00
Blow-offs	9	27.00	20.00	11.00	8.50	15.50	15.00
Air Valves	6	23.00	7.50	11.00	5.00	12.00	12.00
Curved pipe	400 lin. ft.	4.60	4.75	3.85	5.50	6.50	6.00
Saddles for cross-bars and tees	64	15.75	7.50	10.00	8.50	15.50	15.00
6-in. blow-off pipe	2,000 lin. ft.	.48	.60	.49	.70	.55	.55
Concrete	50 cu. yds.	6.00	6.00	6.00	8.00	8.00	8.00
Clearing and Grubbing	2 acres	50.00	40.00	40.00	50.00	60.00	50.00
Excavating and refilling trench, 5 x 8-ft. deep	30,000 cu. yds.	.35	.35	.36	.45	.40	.40
Total cost		$127,267	$122,635	$126,177	$139,630	$147,651	$146,131

LAYING WATER MAINS.—New York, N. Y.—Following bids were received Oct. 11 by John T. Oakley, Comr. Water Supply, Gas and Electricity, for furnishing, delivering and laying water mains in Fulton and other streets, Boroughs of Manhattan and the Bronx; (1) Gallo & Pittelli, 127 Mulberry st; (2) Lou's D. Gregory, 125th St. and First Ave.; (3) Cunningham & Kearns, 438 East 91st St.; (4) Wilton Construction Co., 115 Elliott Ave., Williamsbridge, N. Y.; (5) M. O'Brien; (6) F. M. Lewis, 49 West 27th St.; (7) Jno. Cornwell, 69 East 127th St.; (8) Jos. Burns, 1909 Amsterdam Ave.:

*PORTLAND CEMENT.—New York, N. Y.—Following bids were opened Oct. 10 by Capt. Edward H. Shulz, U. S. Engrs., for furnishing 6,500 bbls. Portland cement for Guantanamo Bay, Cuba: F. S. Bunks & Co., 90 Wall St., New York, $1.5[illegible]/16 (Guantanamo Bay delivery); Atlas Portland Cement Co., Broad St., New York, $1.54; Northampton Portland Cement Co., 26 Broadway, New York, $1.40; Hutchinson Cement Co., William St., New York, $1.51 and $2.11 (Guantanamo Bay delivery); Alpha Portland Cement Co., Easton, Pa., $1.53; Vulcanite Portland Cement Co., Philadelphia, Pa., $1.49.

BIDS RECEIVED AT NEW YORK, N. Y., OCTOBER 11, 1905, BY JOHN T. OAKLEY, COMMISSIONER WATER SUPPLY, GAS AND ELECTRICITY, FOR FURNISHING, DELIVERING AND LAYING WATER MAINS IN FULTON AND OTHER STREETS, BOROUGHS OF MANHATTAN AND THE BRONX.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Straight pipe	440 tons	$33.00	$29.00	$30.80	$28.00	$31.00	$27.50	$30.00	$29.75
Specials	20 "	70.00	65.00	60.00	59.00	60.00	60.00	65.00	62.00
Rock without blasting	10 cu. yds.	5.00	8.00	10.00	.23½	5.00	10.00	10.00	5.00
Rock	700 "	3 00	2.50	3.00	.23½	2.50	3.50	2.00	2.00
Masonry excavation	10 "	.01	.23	.30	.23½	.01	3.00	1.00	1.00
Earth	10,750 "	.30	.23	.30	2.3½	.25	.35	.22	.25
Fill	10,800 "	.30	.23	.30	.23½	.19	.17	.12	.10
12-in. pipe	900 lin. ft.	.30	.26	.35	.35	.25	.36	.40	.30
6-in. pipe	21,000 "	.18	.14	.19	.16	.12	.18	.20	.20
36 x 6 connections	3	250.00	160.00	200.00	140.00	144.00	150.00	120.00	160.00
12-in. stop-cocks	2	85.00	80.00	80.00	77.00	74.00	80.00	80.00	80.00
6-in. stop-cocks	37	40.00	36.00	36.00	36.00	33.25	40.00	40.00	37.00
Double nozzle hydrants	78	40.00	38.00	45.00	41.50	40.00	40.00	45.00	40.00
Rubble Masonry	15 cu. yds.	.01	.01	10.00	.01	.01	6.50	.01	6.00
Brick masonry	5 "	.01	.01	10.00	.01	.01	15.00	.01	12.00
Concrete	5 "	.01	.01	7.00	.01	.01	7.50	.01	8.00
Asphalt pavement	60 sq. yds.	2.00	4.00	4.00	4.00	4.00	4.00	.01	4.00
Granite pavement	25 "	1.00	.01	2 00	.01	.60	2.50	.01	2.00
Pavement	705 sq. ft.	.01	.01	.50	.35	.60	.40	.01	1.00
Macadam	150 sq. yds.	.01	.01	.50	.01	.10	.01	.01	.50
Curb	80 lin. ft.	.01	.01	.20	.01	.01	.01	.01	.10
6-in. Boxing	115 "	6.00	7.00	8.00	5.25	2.50	5.00	6.00	.10
Lumber	500 ft., B.M.	.01	.01	30.00	.01	.01	10.00	.01	30.00
Totals		$38,962	$33,614	$38,830	$32,245	$33,361	$36,169	$34,441	$34,151

*WATER PIPE, DAM, ETC.—Williamsburg, Pa.—Following bids were received Oct. 11 by this Borough, Henry & Dillman, Boro. Engrs., Altoona, Pa., for furnishing and laying pipe, building dam, etc.: (1) C. A. Patterson, Williamsburg, Pa.; (2) J. T. Finn & Co., Green Ave., Altoona Pa.; (3) Ross, Metz & Fay, Williamsburg, Pa.; (4) Dechant & Wilson, Juniata, Pa.; (5) INTERNATIONAL CONSTRUCTION CO., Bessemer Block, Pittsburg, Pa. (awarded contract); (6) Herr, Dhrew & Co., Altoona, Pa.; (7) Thomas M. Oaks & Co., Huntingdon, Pa.:

BIDS RECEIVED AT WILLIAMSBURG, PA., OCTOBER 11, 1905, BY HENRY V. DILLMAN, BOROUGH ENGINEER, FOR FURNISHING AND LAYING PIPE, BUILDING DAM, ETC.

Items.	Quantities.	(1)	(2)	(3)	(4)	(5)	(6)	(7)
8-in. cast iron pipe	13,100 feet.	$0.92½	$1.35	$1.44	$1.09	$1.16	$1.15	$1.54
6-in. cast-iron pipe	2,630 feet.	.71½	.87	1.09	.98	.82	.90	1.20
8-in. valves	3	19.00	28.00	15.50	29.35	16.00	20.00	22.50
6-in. valves	2	13.00	20.00	9.80	14.00	9.00	15.00	16.00
Reducer	1	2.10	8.75	3.71	4.30	4.50	7.00	2.50
8 x 8 x 4-tees	3	6.50	10.00	6.60	7.00	6.00	7.00	2.40
6 x 6 x 4-tee	1	6.00	7.00	4.40	8.60	4.50	5.00	2.20
8-in.-sleeves	2	....	6.00	3.02	....	....	....	2.40
6-in.-sleeves	2	....	4.95	2.20	....	....	....	2 10
Air valve	1	11.50	59.25	2.00	15.00	25.00	20.00	25.90
Grubbing and clearing lump	½ acre	50.00	200.00	75.00	30.00	60.00	50.00	50.00
Masonry	125 cu. yds.	5.85	4.30	5.20	5.00	4.25	6.00	7.25
Excavation	400 "	.60	1.25	.30	.40	.60	1.00	1.00
4-in. valves	2	8.00	9.75	6.80	9.50	6.00	10.00	12.00
Totals		$15,184	$21,481	$22,696	$17,855	$18,314	$18,695	$24,857

*STORM SEWER.—Williamsport, Pa.—Bids were opened Oct. 12 by the Highway and Sewer Committee, James F. Fisher, Cy. Engr., for construction of storm water sewer, approximately 5,700 ft. long, in Park Ave. The bids were taken on several plans, the totals only for five of these being given here. These were as follows; (1) bid on Plan A, brick sewer; (2) on Plan B, concrete sewer; (3) on Plan B, brick sewer; (4) Plan C, concrete sewer; (5) Plan C, brick sewer: Guise Brick & Stone Co., Williamsport, Pa., (1) $40,034, (2) $40,919, (3) $41,217, (4) $38,329, (5) $38,759; Coryell Construction Co., Williamsport, Pa., (1) $39,038, (2) $37,482, (3) $39,336, (4) $34,972, (5) $38,163; Lycoming Contracting Co., Williamsport, Pa., (1) $37,-660, (2) $40,555, (3) $40,250, (4) $37,965, (5) $37,600. The bids received on Plan A, concrete sewer with vitrified brick invert, were as follows; (a) Guise Brick & Stone Co., (b) Coryell Construction Co., (c) Lycoming Contracting Co.:

UNDERGROUND CABLE.—Philadelphia, Pa.—Bids are asked by Bureau Yards and Docks, Washington, D. C., until 11 a. m., Nov. 18, for furnishing and installing certain underground cables at League Island Navy Yard.

LOCK WORK.—Columbus, O.—State Board Public Works has awarded the contract for the rebuilding lock at Dresden, connecting the Northern Ohio canal with the Muskingum River, to CLIFTON BROTHERS, Zanesville, O., for $10,500.

DREDGING.—Oyster Bay, N. Y.—Bids are asked by H. S. Thomson, 92 Liberty St., New York, until noon, Nov. 1, for dredging about 37,000 cu. yds. of material and filling low lands, as was stated in our advertising columns of last week.

PIER.—Atlantic City, N. J.—Delta Co., capitalized at $300,000, has been incorporated to build piers, stores, etc., at this place. It is said that a steel pier is proposed. John B. Car & Foundry Co., 2,500 hopper coal cars and 600 box cars; Standard Steel Car Co., 2,000 gondola cars; Cambria Steel Co., 2,500 gondola cars; Middletown Car Works, 400 box cars.

Bids Received at Williamsport, Pa., October 12, 1905, by the Highway and Sewer Committee, for Construction of Storm Water Sewer, Approximately, 5,700 ft. Long in Park Avenue.

Items.	Quantities.	(a)	(b)	(c)
7.5 ft. x 4.5 ft. concrete sewer......	515 ft.	$12.00	$12.00	$11.00
Manhole......	1	45.00	45.00	50.00
5-ft concrete sewer......	860 ft.	9.00	8.90	8.00
Manholes......	2	40.00	42.00	45.00
4.5-ft. concrete sewer......	1,750 ft.	6.00	4.80	6.00
Manholes......	3	30.00	40.00	40.00
3.5 ft. concrete sewer......	870 ft.	4.25	3.15	5.00
Manholes......	2	30.00	36.00	38.00
3-ft concrete sewer......	880 ft.	4.40	3.75	2.90
Manholes......	2	30.00	37.00	38.00
18-in. t.c. pipe (D.S.)......	735 ft.	2.00	1.25	1.75
Manhole......	1	30.00	38.00	40.00
Excavation......	1,000 cu. yds.	.50	.60	.60
10-in. underdrain......	5,000 ft.	.40	.50	.40
Lumber......	10,000 ft., B.M.	20.00	30.00	20.00
Concrete, 1:3:7......	100 cu. yds.	6.00	6.00	6.00
Brickwork......	100 "	9.57	10.00	10.00
Catch basin, con......	500 ft.	.65	.60	.70
6-in. house sewer, con......	100 ft.	.40	.50	.40
Inlets......	10	30.00	30.00	30.00
24-in. t. c. pipe......	100 ft.	2.40	2.50	2.50
15-in. t. c. pipe......	100 ft.	1.25	1.10	1.60
12-in. t. c. pipe......	250 ft.	1.14	.85	1.20
10-in. t. c. pipe......	300 ft.	.85	.75	.90
8-in. t. c. pipe......	300 ft.	.70	.70	.70
Totals......		$39,861	$36,284	$37,965

*PIPE SEWERS.—Cape May, N. J.—Bids were received Oct. 16 by Cape May City, De Witt D. Barlow, Cy. Engr., for constructing cast-iron pipe sewers in Madison and Beale Aves., the bid per lin. ft. including excavation and repaving. None of the trenching is to be done in rock; pavement is gravel. The sewer is to be built in sand, contiguous to a hydraulic dredge fill, starting at an elevation —9.0 below mean low tide, and is to be completed within six months. The bidders were as follows: (1) J. H. Louchheim & Co., Philadelphia, (2) M. J. Hogan & Co., Real Estate Trust Bldg., Philadelphia (will be awarded contract); (3) Robert E. Hand, Erma, N. J.; (4) B. F. Sweeten & Son, Camden, N. J.:

Kirby, Yardville, N. J.; Jos. D. Bedle, Jersey City, N. J., and J. Fraiser Reed, Newark, N. J., are interested.

CEMENT.—Denver, Colo. — Specifications may be seen at office of Engineering News, 220 Broadway, New York, for furnishing U. S. Reclamation Service with 10,000 bbls. Portland cement. Bids are asked until Nov. 1, as is stated in our advertising columns.

SHOVELS, AXES, ETC.—Washington, D. C.—Bids are asked by Ordnance Office, War Department, until noon, Nov. 16, for supplying U. S. Army with 16,800 shovels, 5,600 pick mattocks, and 3,000 hand axes, of special design. Brig. Gen. William Crozier, Ch. of Ordn.

	(1)	(2)	(3)	(4)
Manholes, 5	$175.00	$172.00	$304.50	$200.00
30-in sewer, 15 ft. deep; 5,430 lin. ft......	13.60	9.51	11.92	10.45
24-in. sewer, 12 ft. deep; 690 lin. ft......	7.20	5.51	10.35	9.20
Junction manholes, 12......	200.00	224.54	325.50	225.00
Hat flange house connections......	20.00	18.81	26.25	25.00
Totals	$83,091	$59,939	$78,608	$68,041

BRICK SEWER.—Parkersburg, W. Va.—Bids were opened Oct. 11 by Board of Affairs, Jno. V. Dunbar, Cy. Engr., for constructing a brick sewer, consisting of 1,500 ft., 6 ft., two ring and 500 ft., 5 ft., three-ring sewer, the contract being awarded to JNO. W. CURRY, 1336 Latrobe St., Parkersburg, at the following bid: 9,000 cu. yds. earth excavation, 43 cts.; 18 cu. yds. concrete, $8; 1,268½ cu. yds. brickwork, $7.90; 1st class masonry, $9; one special manhole, $125; five manholes, $30; 18 catch-basins, $18; 1,000 ft. B. M. lumber, $30; 360 ft., 12-in. sewer, 5 ft. to 8 ft. trench, 65 cts.; total, $15,173. Trench for brick sewer is to be 9 ft. to 26 ft. deep.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

SEA WALL.—Coronado, Cal.—Election will probably be held Nov. 4 to vote on bond issue for sea wall, cost of which is $130,000.

EXCAVATION.—Wheeling, W. Va.—A syndicate, of which S. G. Smith, Atty., is local representative, is said to propose to remove Wheeling Hill.

FIRE HOSE.—Sioux Falls, S. Dak.—Bids are asked by F. L. Blackman, Cy. Audr., until 8 p. m., Nov. 6, for 1,000 ft. 2½ in. cotton fire hose.

DITCH.—Onawa, Ia.—Bids are asked by Monona County Supervisors until noon, Nov. 6, for excavation of Cleghorn ditch, est. 125,-000 cu. yds. C. B. Ellis, County Audr.

UNDERGROUND WIRES.—Minneapolis, Minn.—Minneapolis General Electric Co. is stated to be preparing plans for an extensive placing of its wires in underground conduits.

BOILER.—Fort Brown, Tex.—Bids are asked by Lt.-Col. F. Von Schrader, Depot Q. M., St. Louis, Mo., until noon, Nov. 7, for supply of 50-HP. boiler for Fort Brown.

DREDGING.—Paterson, N. J.—We are advised that the board of aldermen propose to issue bonds for $200,000 for the purpose of dredging the Passaic River through this city. H. J. Harder is Cy. Engr.

SUBWAY.—Reading, Pa.—Board Public Works has awarded contract for subway under P. & R. Ry. tracks at Spring St. (bids opened Sept. 28) to the HAWMAN CONSTRUCTION CO., Reading, Pa., for $157,276.

FIRE ALARM SYSTEM.—Sycamore, Ill.—Bids are asked until 6 p. m., Nov. 13, for installing fire alarm system, consisting of not less than ten alarm boxes, three indicating boards, copper wire and necessary appliances. E. L. Spring, Cy. Clk. (Advertised, Engineering News.)

CHIMNEY.—Buffalo, N. Y.—Bids are asked by Department Public Works, Francis G. Ward, Comr., until 11 a. m., Nov. 3, for furnishing all material and erecting complete one red brick chimney, 250 ft. high, and 11 ft. internal diameter, at the Pumping Station, Bureau of Water.

GRADING.—Portsmouth, N. H.—Bids are asked by Bureau Yards and Docks, Washington, D. C., until 11 a. m., Nov. 11, for removal of earth and rock at Navy Yard, Portsmouth. Est. cost is $25,000. Specifications may be seen at office of Engineering News, 220 Broadway, New York.

TILE DRAIN.—Clinton, Ill.—Bids are asked by Denis O'Dea, Newton Samuels and P. Williams, Comrs., until 1 p. m., Nov. 7, for construction of a tile drain, requiring 20,-951 ft. of 14-in., 15-in., 16-in., 18-in. and 22-in. vitrified salt-glazed tile. J. C. Melluish, Engr., Unity Bldg., Bloomington, Ill.

DRAINAGE CANALS, ETC.—New Orleans, La.—Bids are asked by Bureau Yards and Docks, Washington, D. C., until 11 a. m., Nov. 25, for constructing reinforced concrete drains, curbing and sidewalks at New Orleans Naval Station. Est. cost is $19,000. Specifications may be seen at office of Engineering News, 220 Broadway, New York.

MACHINERY, ETC.—Washington, D. C.—Bids are asked by D. W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, until 10.30 a. m., Nov. 11, for furnishing planing mill machinery, stand-pipes, mowing and grinding machines, iron pipe, round iron, steel brushes, linen hose, etc. (Advertised, Engineering News.)

BUOYS.—Tompkinsville, N. Y.—Bids are asked by Capt. M. R. S. Mackenzie, U. S. N., Light House Inspector, until 1 p. m., Nov. 7, for furnishing and delivering buoys and appendages during fiscal year ending June 30, 1906. Work embraces furnishing whistling nun, can, bell, gas, wooden spar, ice and channel buoys, ballast balls, iron sinkers, etc.

DRILLS, PIPE, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts until 10 a. m., Nov. 8, for furnishing a quantity of naval supplies, among which are the following: Schedule 200, drills, sand belt machine; Schedule 201, oil burning apparatus; Schedule 202, reamers, hardware, files, emery wheels, buffing wheels, steel surface plates. H. T. B. Harris, Paym.-Gen., U. S. N.

CARS.—Philadelphia, Pa.—The Pennsylvania R. R. has completed the placing of its latest car order, aggregating 20,000 cars. The distribution of the cars is as follows: Pressed Steel Car Co., 2,500 hopper coal cars, 5,500 gondolas and 4,000 box cars; American

EARTH SPREADERS.—Washington, D. C.—Following bids were opened Oct. 20 by Isthmian Canal Commission for six earth spreaders, all iron and steel construction, c. i. f. Colon or La Boca: Mann, McCann Co., Railway Exchange Bldg., Chicago, $3,897 each; time, delivery begun 75 days; complete, 115. O. F. Jordan Co., Railway Exchange Bldg., Chicago, $6,000 each; f. o. b. Harvey, Ill.; $4,633 each, delivery begun in 90 days; complete, 150 days.

PILES, SAND.—New York, N. Y.—Bids are asked by Maurice Featherson, Comr. Docks, until 2 p. m., Nov. 3, for furnishing all the labor and materials required for furnishing and delivering about 1,000 yellow pine piles from 80 to 85 ft. in length (Class I.), about 2,000 yellow pine piles from 60 to 70 ft. in length (Class III.), and about 2,000 yellow pine piles from 50 to 60 ft. in length (Class IV.). Bids are also asked for furnishing and delivering about 6,000 cu. yds. sand.

PIPE, CONDUIT, MOTOR, ETC.—Washington, D. C.—Bids are asked by Bureau Supplies and Accounts, until 10 a. m., Nov. 7, for furnishing a quantity of naval supplies, among which are the following: Schedule 189, pipe, fittings, valves; Schedule 190, conduit, night signal lanterns, etc.; Schedule 191, motor, electric wire, cable, drills, vises, wrenches, diving apparatus, etc.; Schedule 192, reamers, drills, chucks, etc. H. T. B. Harris, Paym.-Gen., U. S. N.

PIER WORK.—New York, N. Y.—Following bids were opened Oct. 20 by Maurice Featherson, Comr. Docks, for labor and material required for constructing (1) Pier No. 56, North River, and (2) Pier No. 54, North River: Wm. Lawler, Barton, N. Y., (1) $242,834, (2) $232,809; Snare & Triest, 143 Liberty St., New York, (1) $230,219, (2) $226,591; G. B. Spearin, 17 Battery Pl., New York, (1) $211,650, (2) $208,923; W. H. Jenks, 129 Pearl St., New York, (1) $219,769, (2) $219,769; G. W. Rogers, 44 Broadway, New York, (1) $235,305, (2) $235,456; B. Rolf, 39 Cortlandt St., New York, (2) $215,501.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

BRIDGES.—Porto Rico.—Following bids were opened Sept. 30, by J. J. Jimenez, Supt. Public Works, for furnishing two highway bridges; (1) furnishing and erecting, (2) furnishing only, (3) time in months: Carolina bridge, 266-ft. span—U. S. STEEL PRODUCTS EXPORT CO., New York, (2) $11,229, (3) 3½ to 4, c. i. f. San Juan by steamer (deduct $396 for lattice guard instead of hand railing); also bid $10,970 under (2) for bridge c. i. f. San Juan by sail; awarded contract at $10,579, Penn Bridge Co., Beaver Falls, Pa., (2) $16,-921, (3) 4. Milliken Bros., New York, (1) $22,450, (2) $15,600, (3) 6 and 4. Fox Bros. & Co., San Juan, P. R., (1) $21,949, (3) 8 deduct $486 for lattice guard instead of hand rail; weight, 379,500 lbs. Sucres le Marca, San Juan, (1) $29,110, (3) 8. Pittsburg Bridge and Iron Works, Pittsburg, Pa., bid $10,800 on (2), its bid, however, being received Oct. 7, too late for consideration. Coquitas bridge, 100 ft. span—U. S. Steel Products Export Co., New York, (2) $3,925, (3) 3½ to 4, c. f. f., San Juan by steamer; (2) $3,810, c. i. f., San Juan by sail (deduct $160 for lattice guard instead of railing); (2) $3,413, c. i. f., San Juan by steamer (Pratt bridge); (2) $3,299, c. i. f., San Juan by sailer (Pratt). PENN BRIDGE CO., Beaver Falls, Pa., (2) $5,358, (3) 4, (awarded contract). Milliken Bros., New York, (1) $8,-700, (2) $5,580, (3) 5½ and 4, (Pratt). Fox Bros. & Co., San Juan, (1) $7,625, (3) 7 (deduct $200 for lattice guard instead of hand railing, weight, 115,000 lbs.); (1) $6,953, (3) 7 (deduct $100 for lattice guard instead of hand railing, weight 112,000 lbs.). Sucres le Barca, San Juan, (1) $9,398, (2) $4,532, (3) 6 (weight 60 tons). Pittsburg Bridge & Iron Works, Pittsburg, Pa., bid $4,300 on (2), its bid, however, being received Oct. 7, too late for consideration.

MEXICO.

The names of parties awarded contracts are printed in capital letters.

PAPER PLANT.—City of Mexico. — The plant of the San Rafael Paper Co. is to be greatly enlarged. The capital stock of the company is to be increased from $5,000,000 to $7,000,000, with that object in view.

JAIL BUILDINGS.—Chihuahua.—Plans are reported to have been prepared for the completion of the new state penitentiary buildings at this place. The cost of the work will be about $500,000. Alfred Giles, 114 W. Houston St., San Antonio, Tex., is Arch.

IRRIGATION SYSTEM.—Chihuahua.—General Luis Terrazas, of this city, is having a survey made for irrigation system which he will establish upon his ranch in this state. Dams and canals will be built and about 200,000 acres of land placed under irrigation.

TUNNEL.—Guanajuato.—The State of Guanajuato proposes to have a tunnel constructed to carry off surplus waters and thus prevent a repetition of the flood which occurred in this city some months ago. Contractors have been invited to visit Guanajuato up to Nov. 15, in order that they may enter into relation with Engineer Ponciano Aguiler, who will place before them plans, details and necessary information, so that they may present estimates to the State, the Governor of which is Obregon Gonzalez. The cost of the proposed improvement is $600,000.

WATER CONCESSIONS.—City of Mexico.—The following applications for concessions for the use of streams, rivers and other bodies of water for irrigation and motor power have been received by the Department of Fomento during the past month or so: Francisco C. Alcalde, waters of River Sinaloa, in State of Sinaloa, for irrigation purposes; proposes to construct dam and to erect hydraulic works. Manuel Wribe, water from Amascuzac River in state of Morelos, for increasing irrigation area. Jose H. Rico, Pre[illegible]adalupe de los Reyes Mining Co., waters [illegible] Piaxtla River, in District of San Ig[illegible] State of Sinaloa, for motor power. It [illegible]proposed to generate electric power to ru[illegible] machinery of the mines and smelters a[illegible]dalupe de los Reyes. The company pro[illegible] erect a dam at the junction of the P[illegible] with the Arroyo near the town of [illegible]nacio. Jose Maria Urutia, Saucillo, D[illegible] of Camargo, State of Chihuahua, wat[illegible] Conchos River for irrigation and [illegible] power; proposes to establish extensiv[illegible]ulic works. Manuel Morales, water from [illegible]inas Arroyo, City of Sabinas Hidal[illegible] of Nuevo Leon, for irrigation purpos[illegible]oposes to erect dams and reservoirs. [illegible]lermo de Lands y Escandon, Governor [illegible]e Federal District, in behalf of the [illegible] National Ry., for waters of the Chiqu[illegible]a Soledad River, State of Nuevo Leon [illegible]e uses of the railway company. It is [illegible]d to construct a dam and hydraulic [illegible] Salvador Jose Ayanegui, an owner of [illegible] in the municipality of Amatlan de [illegible], water from Ameca River, between [illegible]ate of Jalisco and the Territory of Te[illegible] proposes to establish smelter at his mine[illegible]

INDUSTRIAL NOTES.

WM. B. SCAIFE & SONS CO., Pittsburg, Pa., has been awarded contract by the Washington Coal & Coke Co., for the structural steel work required for their large power plant at Star Junction, Pa.

THE DAYTON PNEUMATIC TOOL CO., Dayton, O., has received orders for 30 No. 3 "Green" chipping hammers from the Jones & Laughlin's Steel Co., Pittsburg, and 38 "Green" hammers of hiscellaneous sizes for shipment to Japan.

THE BURY COMPRESSOR CO., of Erie, Pa., will have one of its air compressors on exhibition at the Paris Automobile Show, which takes place early in December. This machine will furnish air to operate the numerous American appliances sold in Europe by Messrs. Fenwick Freres & Co.

ERNEST C. MOORE announces that his work in connection with the New York Subway has been completed, and that he has opened an office at 21 Park Row (Room 1033), New York, for the purpose of carrying on a general engineering and contracting business.

THE WELLMAN-SEAVER-MORGAN CO., Cleveland, O., has been awarded the contract to furnish for the Wheeling & Lake Erie Ry., at Huron, O., a complete ore-handling plant, consisting of four Hulett ore-unloading machines, equipped with the Hulett patented excavating bucket. These machines will be able to span four tracks, having cantilever at the rear of the machines and folding boom at the front or water side of the machine. The plant is to be completed by May 1, 1906.—The Wellman-Seaver-Morgan Co. has recently closed a number of important contracts for steel works machinery for Great Britain, and mining outfits for Nevada and Mexico.

THE EXPORT SHIPPING CO., 9-11 Broadway, N. Y., announces that it is preparing to fit a ship of 7,000 tons for the purpose of operating a floating exposition. The company intends to rent space to manufacturers who desire to be represented at $50 per sq. ft. The cost will include transportation and berth for representative, and meals will be furnished at $1 a day per person. It is intended to sail from New York about April 1, 1906, returning about June, 1907. The proposed itinerary includes Great Britain, Russia, Germany, Belgium, Spain, Italy, Austria, Egypt, India, Siam, P. I., China, Siberia, Japan, Australia, New Zealand, Peru, Chili, Argentina, Brazil, Central America, etc. The company has published a complete map of the route, sent free on request.

THE ABNER DOBLE CO., of San Francisco, has recently received several orders for Doble tangential water wheels. Prominent among them is an order from the California Gas. & Electric Corporation for a 9,000 HP. wheel for its de Sabla power plant. This machine will be similar to the 8,000 HP. Doble wheel installed in the de Sabla plant last year and the three 8,000 HP. Doble wheels recently completed and now successfully operating in the new electric station of the same company. The wheel will operate under a head of 1,530 ft. at 400 R. P. M., and will be driven by a single jet of water, thus making it the most powerful water wheel ever constructed for operation under a single jet of water. Another order from the Cal. Gas & Electric Corporation calls for six 570 HP. wheels for its Nevada City plant. These will operate under a 190-ft. head at 410 R. P. M. A 400 HP. Doble wheel for operation under a 400-ft. head, equipped with jet deflector operated by a Woodward compensating governor, has been shipped to the Chancellor Gold Mining Co., Wenatchee, Wash. The La Grande Water Storage Co., La Grande, Ore., has purchased an 800 HP., 1,150-ft. head, 600 R. P. M. Doble wheel, equipped with a Doble needle regulating nozzle for operation by a Lombard governor. Among other recent orders secured by the Doble Co. are two double 1,750 HP. wheels for the San Joaquin Power Co., Fresno, Cal., for operation under 385-ft. head; one Doble needle regulating nozzle for a large water wheel for the Komata Reefs Gold Mining Co., New Zealand, and a double 700 HP. water wheel unit for Mitsui & Co., Japan, for operation under 210-ft. head, this order including the wheel complete with Lombard governor and gate valve.

SITUATIONS OPEN

WANTED.—Good structural draftsman on mine and mill building work, Minneapolis. Address "J. G.," 1225 7th St., S. E., Minneapolis, Minn. 17-1t

WANTED.—Two (2) experienced engineering graduates to design and estimate steel bridges and buildings. McCLINTIC-MARSHALL CONSTRUCTION COMPANY, Pottstown, Pa. 17-tf

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